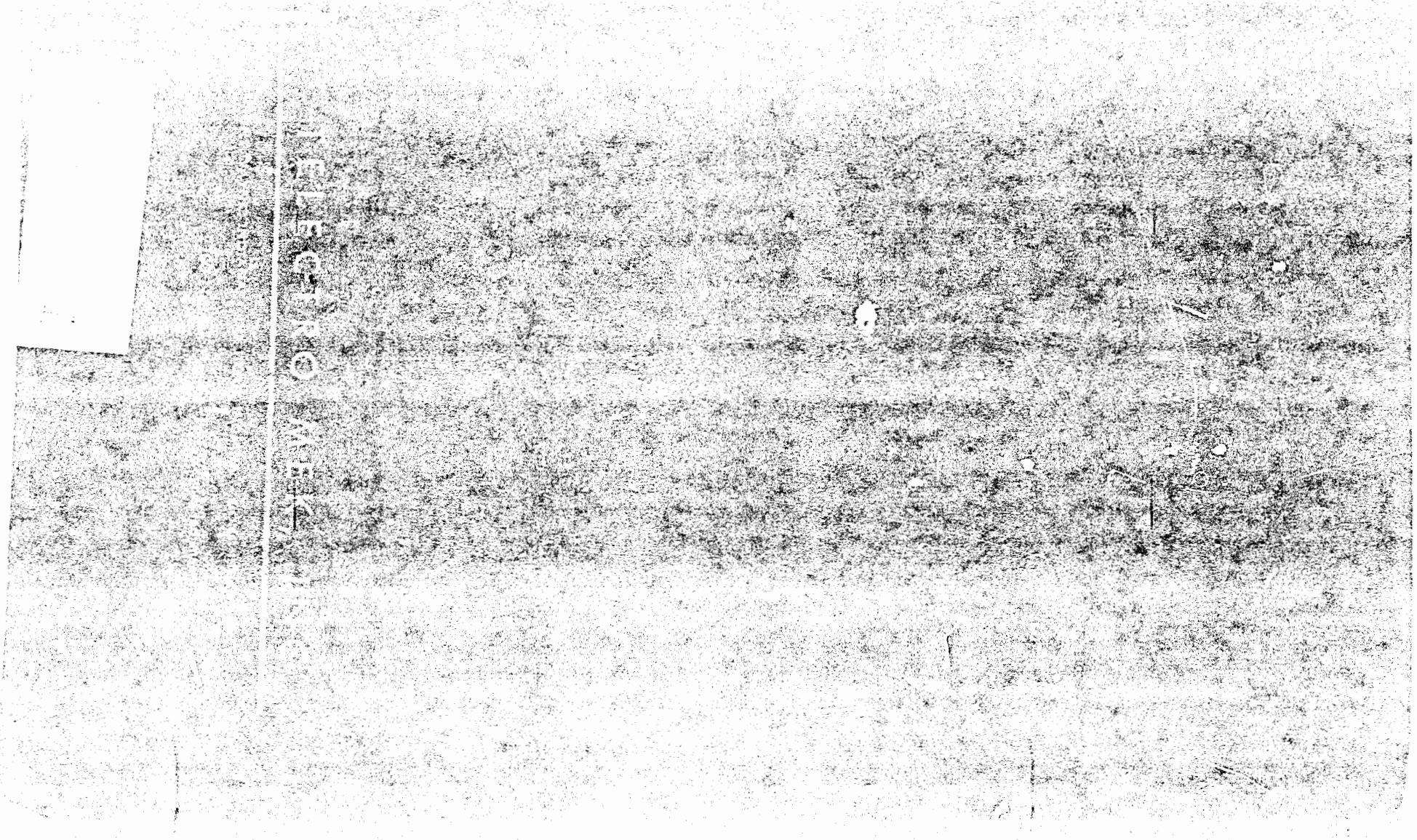
AD 654 210



REPORT OF FINAL TEST ON PROTOTYPE UNIVERSAL TYPE NET THRUST COMPUTER SYSTEM

March 26, 1965

Prepared under Navy, Bureau of Weapons

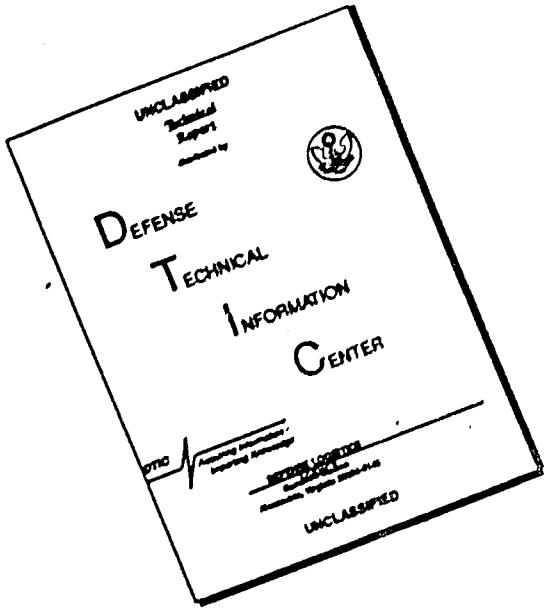
Contract NOw 64-0513-f

Final Report M62NO5-TR-1A Revised 5/17/65

Covering Period Nov. 1964 to Mar. 1965

File 860-M62NO5-TR-1A

DISCLAIMER NOTICE



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ABSTRACT

Contract NOw-64-0513-f let to Telectro-Mek, Inc., Fort Wayne, Indiana, provided for the design, development, fabrication, and test of three (3) Prototype Net Thrust Computer Systems and necessary probing to install two of the Systems in a Navy A3D aircraft. The third system to be subjected to environmental and life testing and then supplied as a replacement spare for the first two systems. Systems 1 and 2 passed the Individual and Qualification tests with an error of less than ±4% of full thrust over the entire range of the engine operation. System number 3 passed the Individual, Qualification, Environmental and Life tests with an error of less than ±4% of full thrust over the entire range of the engine operation, while the system was being subjected to the full environmental tests. System 3 operated for 536 hours of Life testing without a failure. All three systems are at the Naval Air Station, Whidbey Island, Washington, for flight trials.

TABLE OF CONTENTS

TELECTRO-MEK, INC.
FORT WAYNE, INDIANA SO. BEND, INDIANA LONG ISLAND CITY, N. Y.
2700 Nuttman Avenue, Fort Wayne, Indiana 46804

1.0 SYNOPSIS

1.1 Introduction

1.1.1 This final report covers the work done by Telectro-Mek, Inc. for Navy Bureau of Weapons under Contract NOw 64-0513-f. This contract provided for design, development, fabrication and furnishing of three (3) Prototype Net Thrust Computing Systems, Contractors Model No. TME-303, including Transmitters, Computers, Indicators, Probes and Cables for flight testing purposes.

1.1.2 This Test Report forms Item 4 of the Contract and contains a full report, with accompanying data on the Qualification, Environmental, and Life Tests performed on the three (3) Prototype Net Thrust Computing Systems designated as Item 1 on the aforementioned contract.

1.1.2 The testing was performed in compliance with the said contract and with Technical Proposal No. P62NO5-3. Detailed procedures for the Environmental testing was performed as specified in MIL-E-5272C and MIL-E-5009A.

1.1.4 The Prototype Net Thrust Computing Systems, Model TME-303, Item 1 were tested as follows.

1.1.4.1 Item 1 - Serial Nos. 1 and comprising:

Qty 10 Transmitters Part No. 300015-2,4,5,6,8
Serial Numbers 1 through 10

Qty 2 Gross Thrust Computers Part No. 400041-G1

Qty 2 Ram Drag Computers Part No. 400041-G2

Qty 2 Indicators Part No. 200295-G4

Qty 2 Probe Assemblies Part No. CV 201-7

1.1.4.1.1 These two systems were subjected to the Individual and Qualification Testing in accordance with Proposal No. 62N05-3 and then delivered to the Naval Air Station, Whidbey Island, Washington.

1.1.4.2 Item No. 1 Serial Number 3 comprising:

Qty 5 Transmitters Part No. 300015-2,4,5,6,8
Serial Nos. 9,10,6,1,2

Qty 1 Ram Drag Computer Part No. 400041-G2

Qty 1 Gross Thrust Computer Part No. 400041-G1

Qty 1 Indicator Part No. 200295

Qty 1 Probe Assembly Part No. CV 201-7

1.1.4.2.1 This System was subjected to the Individual and Qualification Testing in accordance with Proposal No. P62N05-3. The Ram Drag and Gross Thrust Computers were then subjected to the Environmental Testing specified in MIL-E-5272C and MIL-E-5009A. Then the Transmitters, Ram Drag Computers, Gross Thrust Computer, and Indicator were subjected to a 500 hour Life Test.

The System was then dispatched to the Naval Air Station, Whidbey Island, Washington.

1.2 Summary of the Tests

1.2.1 Item 1 Serial Nos 1 and 2,systems subjected to Individual and Qualification Tests,performed as follows:

1.2.1.1 Scale Error allowed

Gross Thrust 1.82% of Full Scale

Net Thrust 2.75% of Full Scale

Percent Thrust 2.925% @ Sea Level

7.88% @ 25,000 feet or above

1.2.1.1.1 Max Scale Error Indicated

	Recorded	% Full Scale
System 1 Gross Thrust	260 lbs	.866%
System 1 Net Thrust	350 lbs	1.16 %
System 1 % Thrust (Sea Level)	2.0%	1.66 %
System 1 % Thrust (45,000 ft)	3.0%	2.50 %
System 2 Gross Thrust	260 lbs	.866%
System 2 Net Thrust	260 lbs	.866%
System 2 % Thrust (Sea Level)	1.0%	.833%
System 2 % Thrust (25,000 ft)	2.5%	2.08 %

1.2.1.2 Friction Error Allowed 0.50% full scale

1.2.1.2.1 Max Error Recorded

	Net Thrust	Percent Thrust
System 1	0.166%	0.166%
System 2	0.166%	0.166%

1.2.1.3 Sensitivity

System 1 Responded to less than 1% change in thrust

System 2 Responded to less than 1% change in thrust

1.2.1.4 Response Time

System 1 Responded to a 20% change of thrust in less than 1 second.

System 2 Responded to a 20% change of thrust in less than 1 second.

1.2.1.5 Full data pertaining to the above tests are contained in Section 2.0.

1.2.2 Item 1 Serial No. 3 System subjected to Individual and Qualification Tests performed as follows:

1.2.2.1 Scale Error Allowed

Gross Thrust	1.82% of full scale
Net Thrust	2.75% of full scale
Percent Thrust	2.925% Sea Level
	7.88% at 25,000 feet or above

1.2.2.1.1 Max Scale Error Indicated

	Recorded	% Full Scale
Gross Thrust	260 lbs	.866%
Net Thrust	330 lbs	1.10 %
% Thrust (Sea Level)	1.5 %	1.25 %
% Thrust (45,000 ft)	3.0 %	2.50 %

1.2.2.2 Friction Error Allowed .75% full scale

1.2.2.2.1 Max Error Recorded - Net Thrust 0.266% - % Thrust 0.5%

1.2.2.3 Sensitivity

System 3 Responded to less 1% change in thrust

1.2.2.4 Response Time

System 3 Responded to a 20% change in thrust in less than 1 second.

1.2.2.5 Environmental Tests

System Serial No. 3 Gross Thrust Computer and Ram Drag Computer were subjected to the following tests:

(a) Low Temperature
(b) Temperature/altitude
(c) High Temperature
(d) Vibration
(e) Shock

1.2.2.5.1 At each check point during these tests System 3 performed within the specified accuracy limits.

1.2.2.6 Life Tests - System Serial No. 3 operated during Life Test for a period of 536 hours without failure. Immediately after Life Testing at the 341st hour the digits in the Indicator Part No. 200295 started to stick. These had to be removed and reworked.

1.2.2.7 Full data for the Individual Qualification, Environmental and Life Tests for System Serial No. 3 are contained in Section 3.0.

1.2.3 The Transmitters, Part No. 300015, and the Indicators, Part No. 200295, were not subjected to Environmental Tests because identical units had previously been subjected to these tests for Qualification on the Air Force Contract AF 33(657)-9589. The results of the Environmental Tests on these previous items are contained in Section 3.0 of this report.

1.3 Conclusions

That Item 1 Prototype Net Thrust Computing Systems Model TME-303 Serial Numbers 1, 2, and 3 all met the accuracies and specifications contained in the Proposal No. P62N05-3.

1.4 Recommendations

1.4.1 Flag Redesign - It is recommended that the Flag Mechanism and digital counter mechanism which started to stick after 541 hours of operation be redesigned.

1.4.1 Check-out Gear - This equipment was used during testing to simulate the engine pressures. For normal maintenance on the equipment, when it is mounted in the aircraft, this type of equipment is essential for checking out the system when it is not desirable to run the engines. Recommend check-out equipment be purchased as an essential maintenance tool for the System.

1.4.2 Temperature Bug - The present max percent thrust indication is a variable dependent on the temperature of the day as noted in Instruction Book P62N05-0I-6, Item 3 of Contract. It is recommended that an automatic temperature bug limit be incorporated in future systems to eliminate need for reference to charts and temperature gage. Similar systems have been engineered, built and sold to Air Force and F.A.A. and are found very desirable.

1.4.3 Air Tests - It is recommended that Model TME-303, Prototype Net Thrust Computing Systems,be flight tested and the results published.

1.5 Test Apparatus Used

Simulator Telectro-Mek, Inc. Part No. 400002-G1
Wide Range Oscillator Hewlett Packard 200 CD
Barometer, Wallace and Tiernan Model FA-129
"Thermo Meter" Simpson Model 388
Vacuum Tube Volt Meter H.P. Model 400L
Multimeter Simpson Model 260
Electronic Counter H.P. Model 5253A
Oscilloscope, Tektronix Type 561
Frequency Changer Sorensen Model FCD 500R
Bowser Climatic Chamber Model 36-100VH Stock No. 10278
Thermo Electric Bridge Model 80200 Stock No. 10757
Calidyne Shaker Model 177A Stock No. 9549
Avco Shock Machine Model SM-030 Serial No. 1003

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA SO. BEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

Endevco Accelerometers Model Serial No. BA-44, R-272, R-273

Endevco Cathode Follower Model 2608, Serial No. 8541,8547, 474

Endevco Power Supply Model 2622 Stock No. 9052

Tektronix Oscilloscope Model 545 Stock No. 6598

Polaroid Oscilloscope Camera Stock No. 7147

Dumont Oscilloscopes Model 304, Stock No. 4791, 3606, 5029

H-P V.T.V.M. Model 400H Stock No. 9559

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA SO. BEND, INDIANA LONG ISLAND CITY, N. Y.

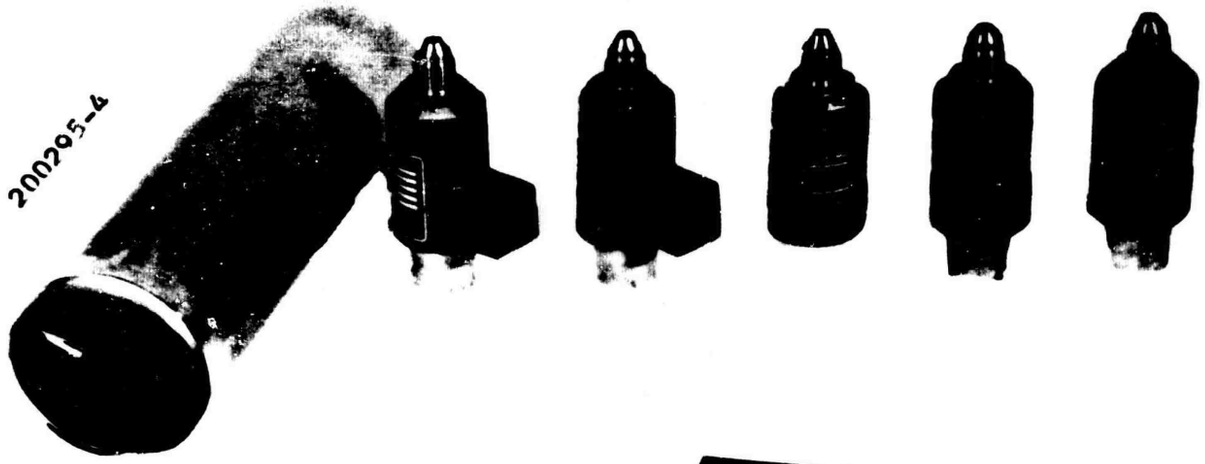
2700 Nuttman Avenue, Fort Wayne, Indiana 46804

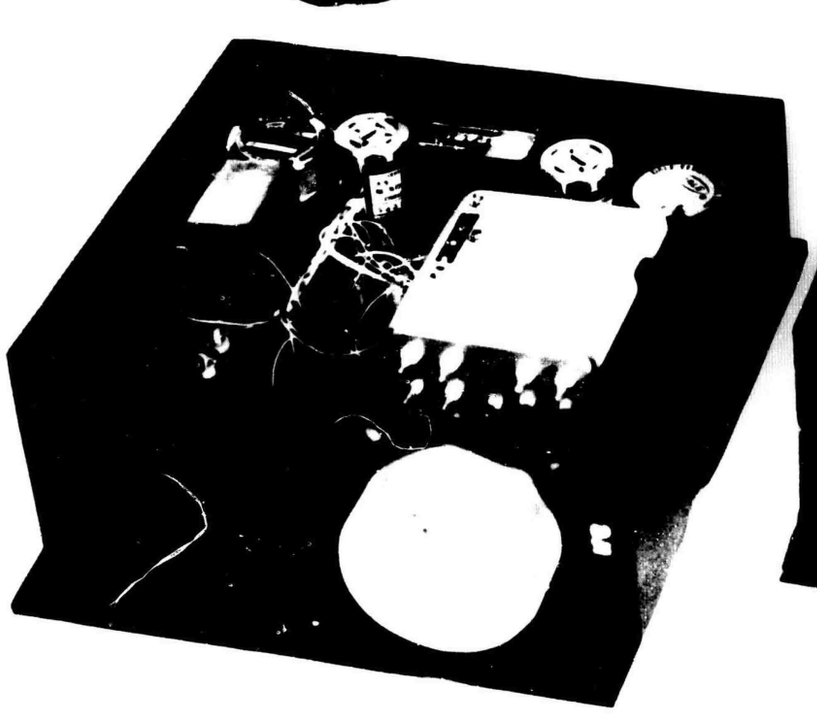
APPENDIX I

This appendix consists of the following drawings which are included herewith and constitute part of this Test Report.

Quantity	Drawing	Title
1	P66	TME-303 System Part No. 200297-1
1	400041	Computer Module Assembly
1	300015	Transmitter, Pressure
1	200327	Probe, Pitot Static-C-V 201-7
1	200295	Indicator, Thrust - Digital and Percent

300015





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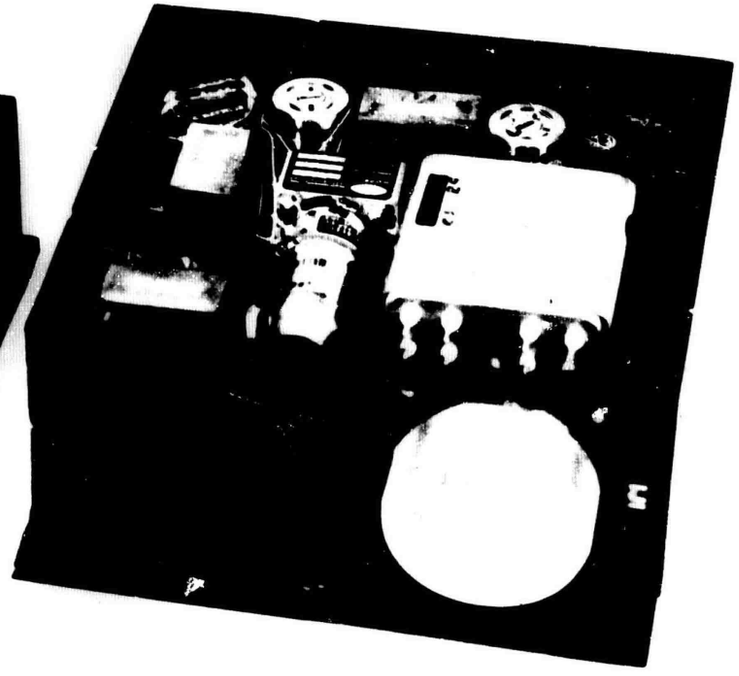

400041-G1

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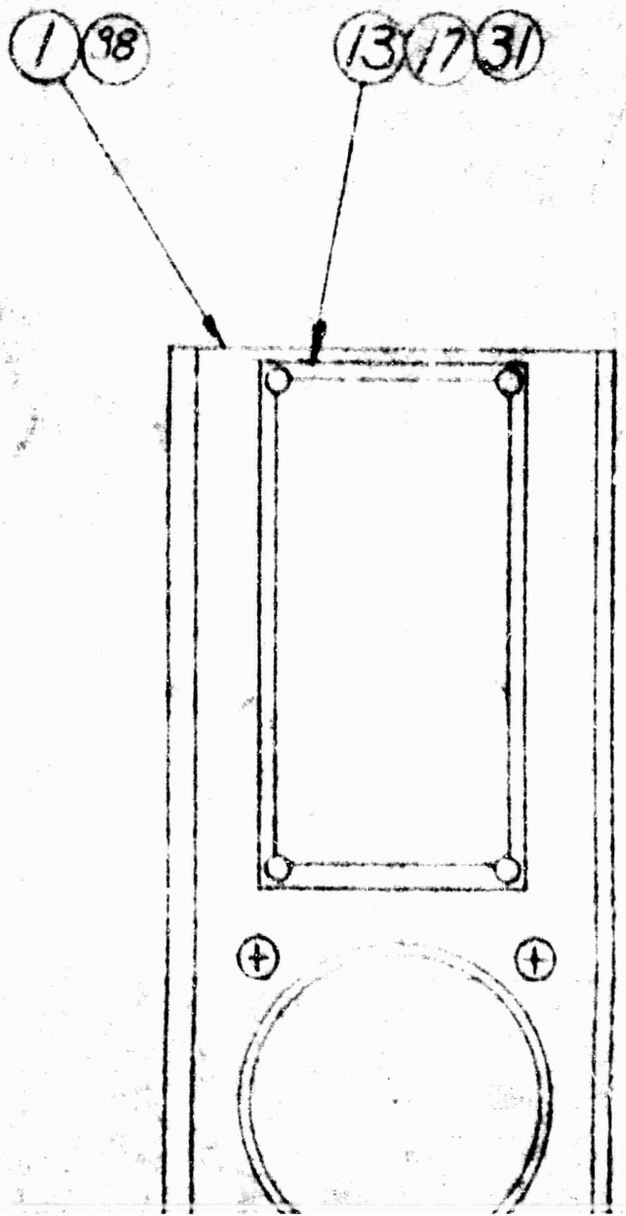

16

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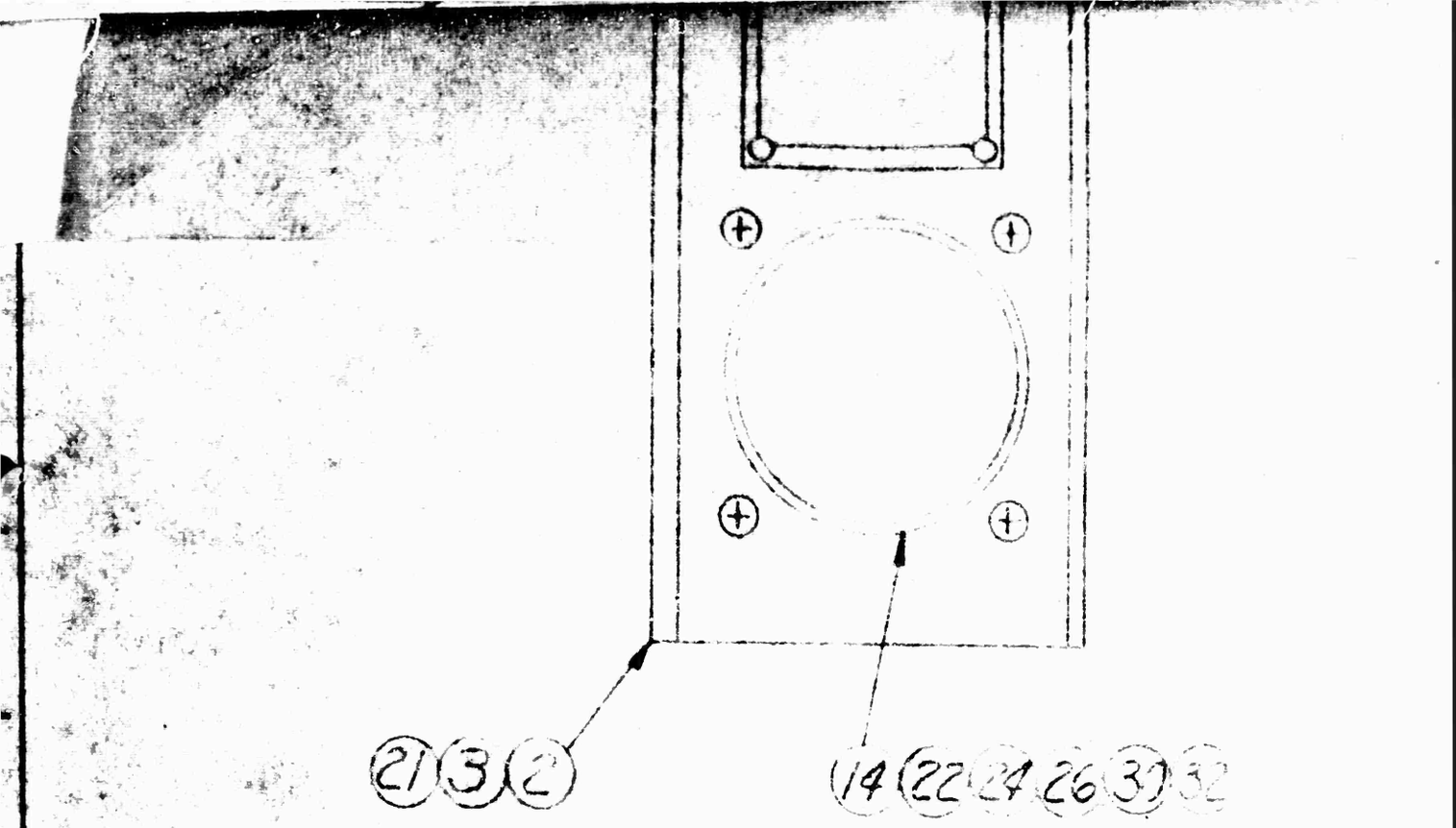
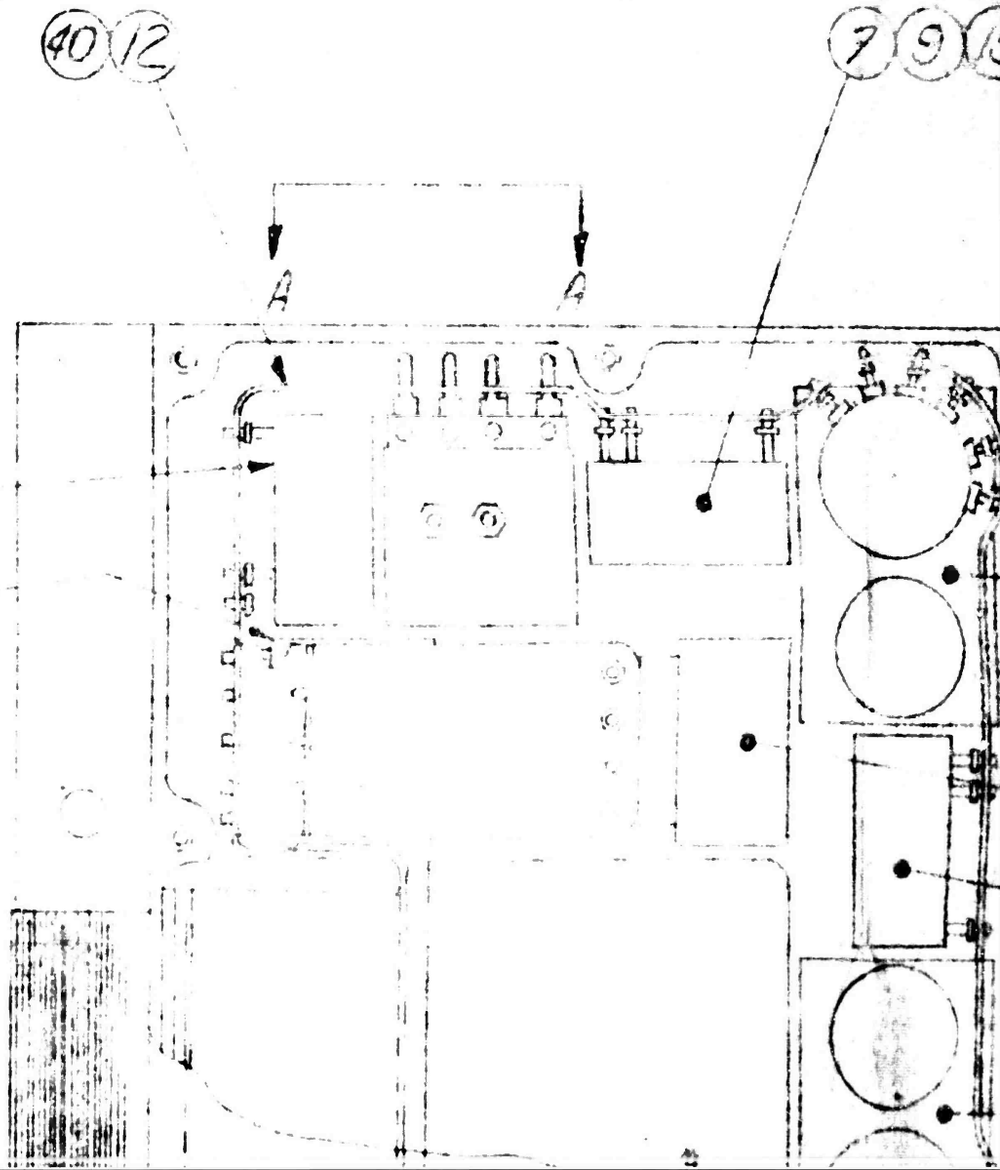
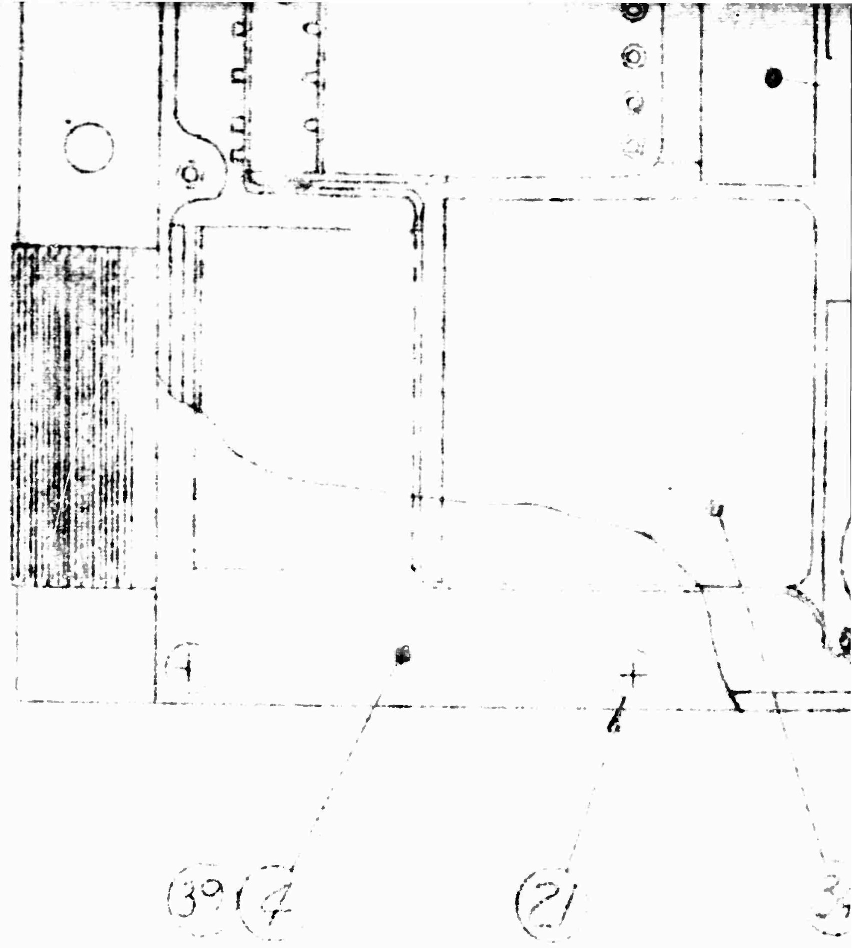


25 23 18

C

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4
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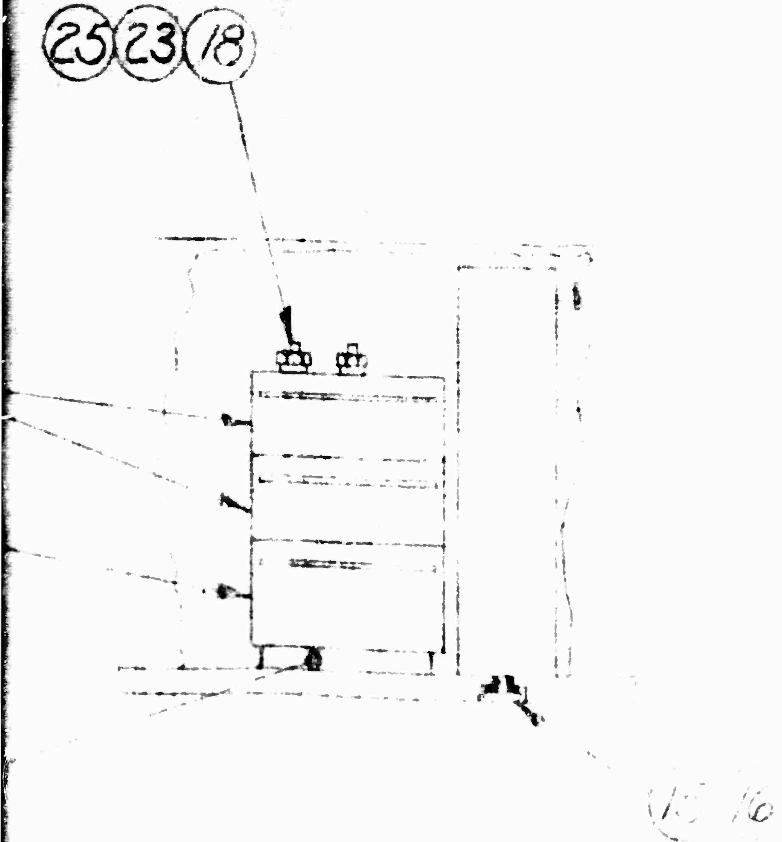
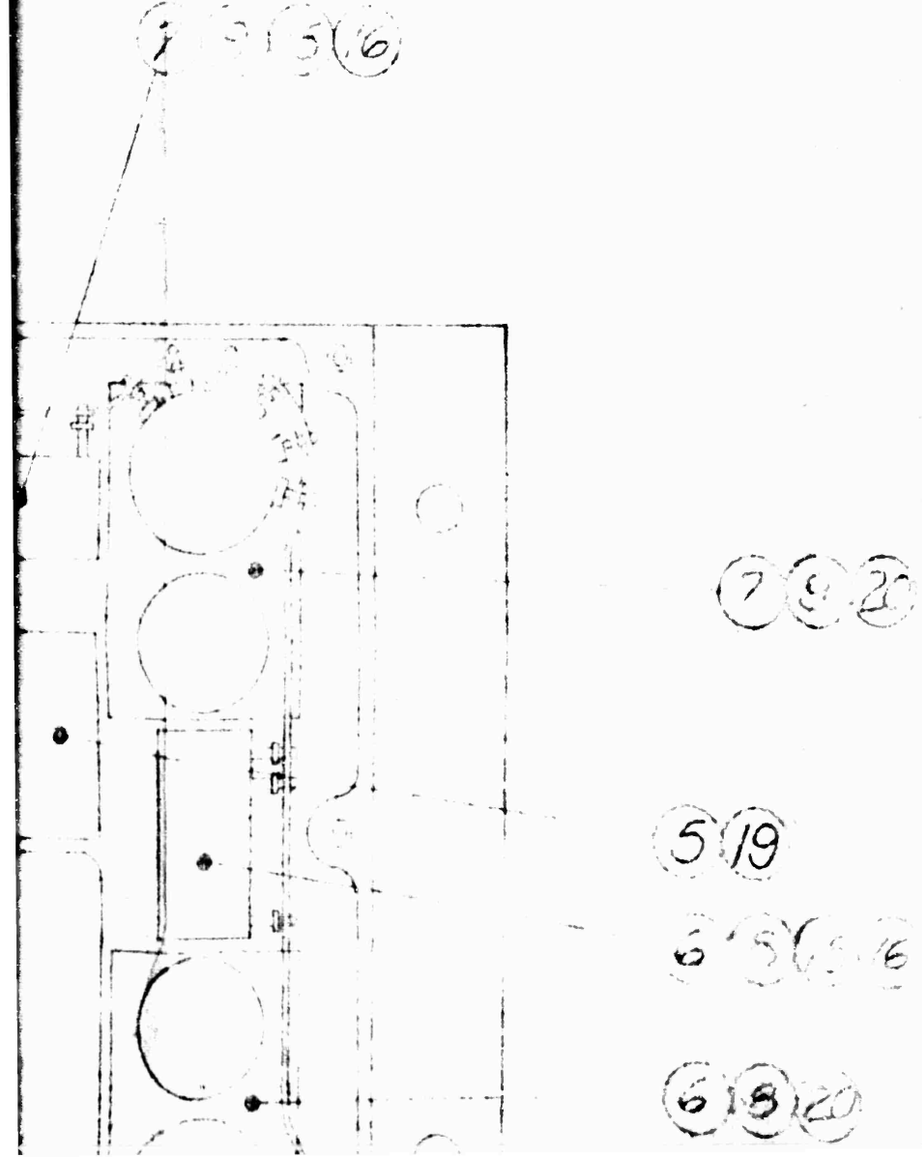
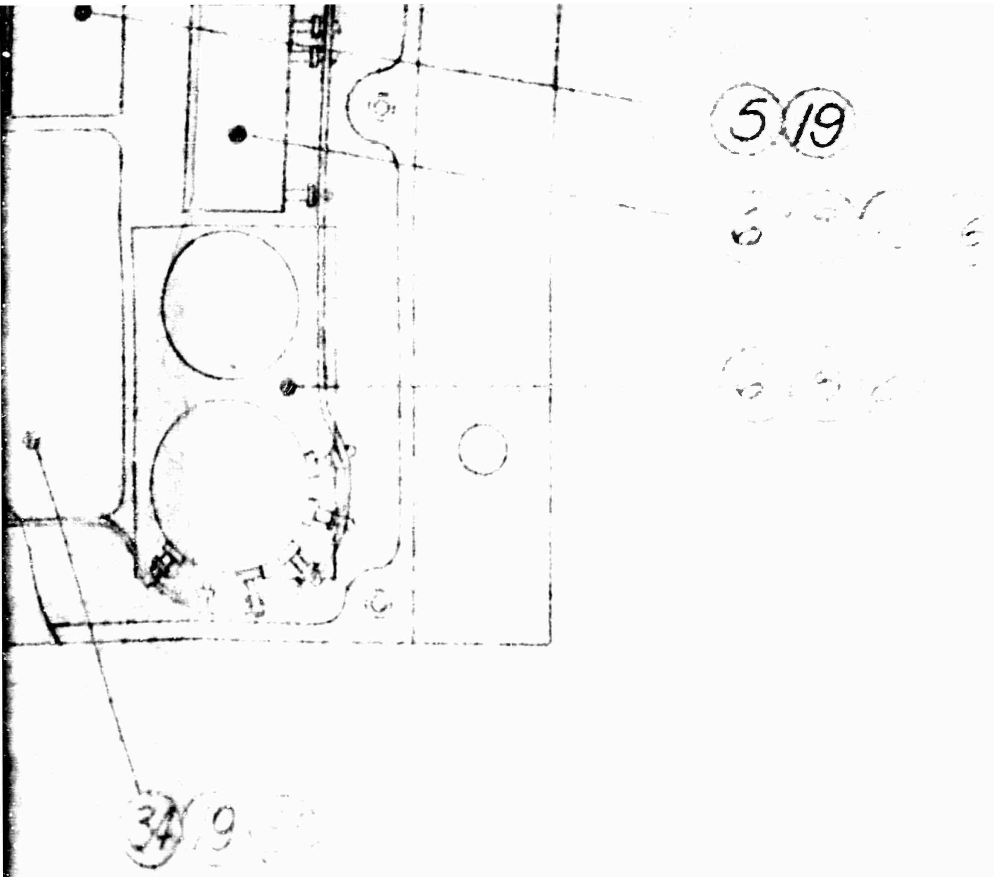

25
23
18
15
16

E

NOTES:

1. APPLY ITEM 22 TO ITEMS 15 AND 16 AT ASSEMBLY.





F

MATERIAL

FINISH

NEXT ASSEMBLY | REV | PROP.

APPLICATION

BASIC DIM

6 5 4

4 3 2

A ORIGINAL ISSUE

B

DESCRIPTION AD

ITEM 12

6

... ITEMS ... 20, 21
... SEMBLY

REF	-	42	4[illegible]44	DIAGRAM, SCHEMATIC -
-	REF	41	4[illegible]043	DIAGRAM, SCHEMATIC - G
1	-	40	300115	PRINTED CIRCUIT CABLE
1	-	39	300113-5	COVER, MODULE
1	-	38	400029 3	HOUSING, MODULE, COMPU
1	-	37	200306-[illegible]	TRANSFORMER, AUDIO-ASS
	1	36	2003[illegible]6-[illegible]	TRANSFORMER, AUDIO-ASSY
1	-	35	40004[illegible]-G4	POWER SUPPLY-ASSY
-	1	34	4[illegible]042-G3	POWER SUPPLY-ASSY
1	1	33	1[illegible]144-2	PLATE, HEATSINK
		32	[illegible]	[illegible], RECEPTACLE
1	-	31	1[illegible]159-4	NAMEPLATE, MODULE ASS
		30		
AR	AR	29	[illegible]WARP2-032	SOLDER, TIN ALLOY
AR	AR	2[illegible]		WIRE, ELECTRICAL
AR	AR	27		LOCTITE SEALENT
4	4	26	AN340C-6	NUT, PLAIN HEX #6
2	2	25	AN340C-4	NUT, PLAIN HEX #4

-	1	39	400042-G3	POWER SUPPLY - ASSY
1	1	33	100144-2	PLATE, HEATSINK
.	.	32	[illegible]	CONNECTOR, RECEPTACLE
1	-	31	100159-4	NAMEPLATE, MODULE AS
		30		
AR	AR	29	SNE3WARP2-032	SOLDER, TIN ALLOY
AR	AR	28		WIRE, ELECTRICAL
AR	AR	27		LOCTITE SEALENT
4	4	26	AN340C-6	NUT, PLAIN HEX #6
2	2	25	AN340C-4	NUT, PLAIN HEX #4
4	4	24	AN935C-79	WASHER, LOCK - SPLIT #6
2	2	23	AN935C-78	WASHER, LOCK - SPLIT #
4	4	22	AN507C-R6-5	SCREW, MACH, 100° FLAT H
16	16	21	AN507C-R6	SCREW, MACH, 100° FLAT HE
4	4	20	AN507C-R4-4	SCREW, MACH, 100° FLAT HE
5	7	19	AN507C-R4-5	SCREW, MACH, 100° FLAT HE
2	2	18	AN507C-R4-32	SCREW, MACH, 100° FLAT HE

4	4	17	AN535C4-3	SCREW, DRIVE #4 X 3/1
4	6	16	TXBP-032-[illegible]	SCREW, MACH (P/O 1ERC)
4	6	15	TXBP-032-[illegible]	WASHER, SHOULDER (P/O
-	1	14	DMCA-22-15P-111	CONNECTOR, RECEPTACLE
-	1	13	100159-3	NAMEPLATE, MODULE ASS
-	1	[illegible]	[illegible]	PRINTED CIRCUIT CABLE
		11	[illegible]	[illegible]
		10	[illegible]	AMPLIFIER, HIGH IMPEDA
		[illegible]	[illegible]	MODULE ELEV ASSY (2A
		[illegible]	[illegible]	MODULE SEAL ASSY (2A
		[illegible]	[illegible]	MODULE [illegible] ASSY (1
		6	[illegible]	MODULE SEAL ASSY (1
		[illegible]	[illegible]	MACH SCREW ASSY (1
		[illegible]	[illegible]	[illegible]
		[illegible]	[illegible]	[illegible]
-	1	2	[illegible]	PLATE, MTG
		1	400[illegible]	HOUSING, MODULE COMPU

G6	G5	G4	G3	G2	G1	ITEM	PART NUMBER	DESCRIPTIO
QUANTITY PER GROUP								

LIST OF MATERIAL

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN
CHEMICAL
TOLERANCES

BASIC DIA	TWO PLACE DECIMALS	ANGLES
UNDER 6		
6 to 24 Incl		
OVER 24		

COMMERCIAL TOLERANCES
REMOVE ALL BURRS & SHARP EDGES
SCREW THREADS

SIGNATURE & DATE

DRAWN	[illegible]
CHKD.	
ENGR	
APPD.	
APPD.	
APPD.	
APPD.	

TELECTRO-M
FORT WAYNE,
DWG. TITLE
COMPUTER MODULE

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SCALE 1/1
DO NOT SCALE DWG.
DWG SIZE

3	2	1

REVISIONS			
A ORIGINAL ISSUE			
ISS B	CHGD. BY & DATE	APPD. BY & DATE	ECR NUMBER
DESCRIPTION	ADDED ITEMS 40, 41 & [illegible]		
	ITEM 12 PT. NO. WAS 300012		

REF	-	42	[illegible]	DIAGRAM, SCHEMATIC - RAM DRAG
-	REF	41	400043	DIAGRAM, SCHEMATIC - GROSS
1	-	40	300115	PRINTED CIRCUIT CABLE - RAM DRAG
1	-	39	300113-5	COVER, MODULE
1	-	38	400029-3	HOUSING, MODULE, COMPUTER (2J1)
1	-	37	200306-01	TRANSFORMER, AUDIO - ASSY (2A3)
-	1	36	200306-02	TRANSFORMER, AUDIO - ASSY (1A4)
1	-	35	[illegible]	POWER SUPPLY - ASSY (2PS1)
-	1	34	[illegible]	POWER SUPPLY - ASSY (1PS1)
1	1	33	100144-2	PLATE, HEATSINK
		32	[illegible]	CONTACT, RECEPTACLE (2J1)
1	-	31	100159-4	NAMEPLATE, MODULE ASSEMBLY
		30		
AR	AR	29	SNE.WAAP2-032	SOLDER, TIN ALLOY
AR	AR	28		WIRE, ELECTRICAL
AR	AR	27		LOCTITE SEALENT
4	4	26	AN3400-6	NUT, PLAIN HEX #6
2	2	25	AN3400-4	NUT, PLAIN HEX #4

G2	G1	ITEM	PART NUMBER	DESCRIPTION
[illegible]	1	33	100144-2	PLATE, HEATSINK
	-	32	[illegible]	[illegible], RECEPTACLE (2J1)
	-	31	100159-4	NAMEPLATE, MODULE ASSEMBLY
		30		
R	AR	29	SN63WARP2-032	SOLDER, TIN ALLOY
R	AR	28		WIRE, ELECTRICAL
R	AR	27		LOCTITE SEALENT
4	4	26	AN340C-6	NUT, PLAIN HEX #6
2	2	25	AN340C-4	NUT, PLAIN HEX #4
4	4	24	AN935C-79	WASHER, LOCK-SPLIT #6
2	2	23	AN935C-78	WASHER, LOCK-SPLIT #4
4	4	22	AN507C-R6-5	SCREW, MACH, 100° FLAT HEAD C.R. #6-32 X 5/16
6	16	21	AN507C-R6-6	SCREW, MACH, 100° FLAT HEAD C.R. #6-32 X 3/8
4	4	20	AN507C-R4-4	SCREW, MACH, 100° FLAT HEAD C.R. #4-40 X 1/4
5	7	19	AN507C-R4-5	SCREW, MACH, 100° FLAT HEAD C.R. #4-40 X 5/16
2	2	18	AN507C-R4-3[illegible]	SCREW, MACH, 100° FLAT HEAD C.R. #4-40 X 1 7/8

400041 B

G2	G1	ITEM	PART NUMBER	DESCRIPTION
4	4	17	AN535C4-3	SCREW, DRIVE #4 X 3/16
4	6	16	TXBP-032-037	SCREW, MACH (P/O IERC)
4	6	15	TXBP-032-037	WASHER, SHOULDER (P/O IERC)
-	1	14	DHG2-25-1SP-111	CONNECTOR, RECEPTACLE (1J1)
-	1	13	100159-3	NAMEPLATE, MODULE ASSEMBLY
-	1	12	300[illegible]	PRINTED CIRCUIT CABLE - GROSS
	1	11	[illegible]	[illegible] HEAT SINKED (1AR3)
	2	10	[illegible]	AMPLIFIER, HIGH IMPEDANCE (1AR1, 1AR2, 2AR1, 2AR2)
1	-	9	[illegible]5	MODULE [illegible] (2A1)
1	-	8	2003[illegible]-64	MODULE SEL[illegible] ASSY (2A2)
-	1	7	[illegible]	MODULE [illegible] ASSY (1A2)
-	1	6	[illegible]	MODULE [illegible] (1A1)
-	1	5	[illegible]	MODULE [illegible] ASSY (1A3)
-	1	4	3[illegible]-4	[illegible]
1	-	3	3[illegible]2	[illegible]
-	1	2	30[illegible]-1	PLATE, MTG
	1	1	400029-2	HOUSING, MODULE COMPUTER (1J1)

GROUP

LIST OF MATERIAL

SIGNATURE & DATE	
DRAWN	[illegible] 6-25-65
CHKD.	
MECH. APPVL.	
ELECT. APPVL.	
APPD.	
APPD.	
APPD.	[illegible]

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA

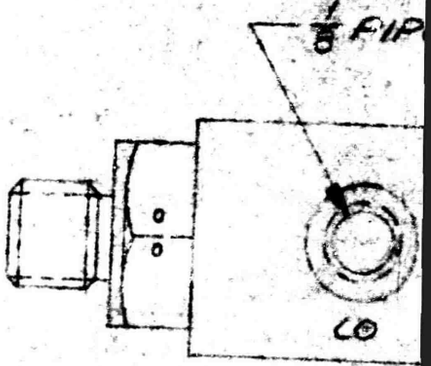
DWG. TITLE

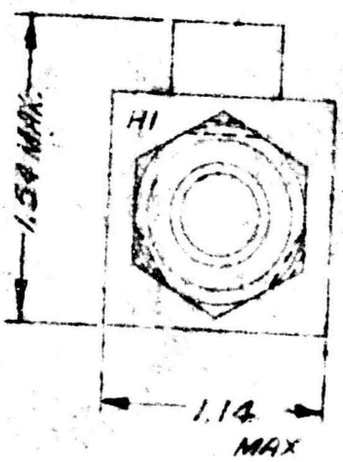
COMPUTER MODULE ASSEMBLY

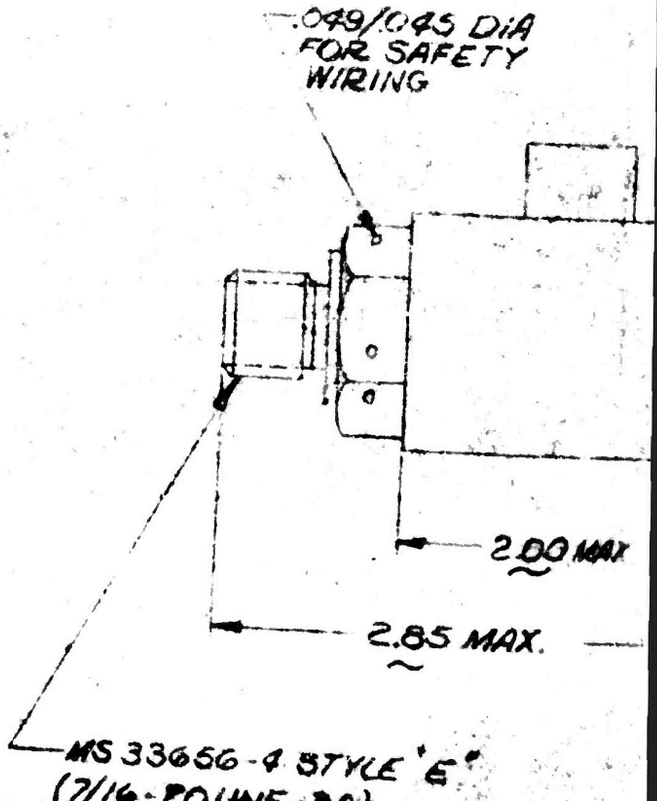
Unless otherwise provided by contract TELECTRO-MEK, INC. claims [redacted] This drawing [redacted] in confidence and shall not be reproduced or used [redacted] without written permission.

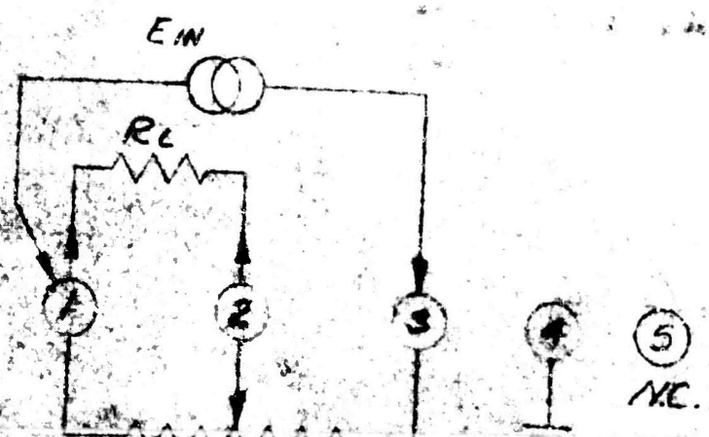
SCALE 1/1 | DO NOT SCALE DWG. | DWG. SIZE D | 400041 | SHEET | OF

PART NO.	PRESSURE RANGE	NOTES
1	30 PSID	———
2	60 PSIA	LO PRESSURE BOSS MAY BE DELETED
3	100 PSIA	LO PRESSURE BOSS MAY BE DELETED
4	15 PSIA	"
5	30 PSIA	"
6	15 PSID	
7	60 PSID	
8	8 PSID	

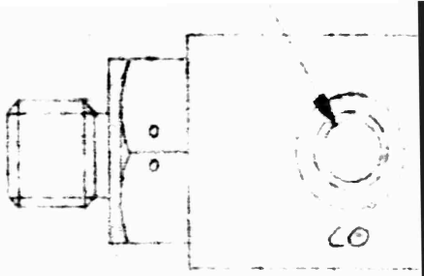


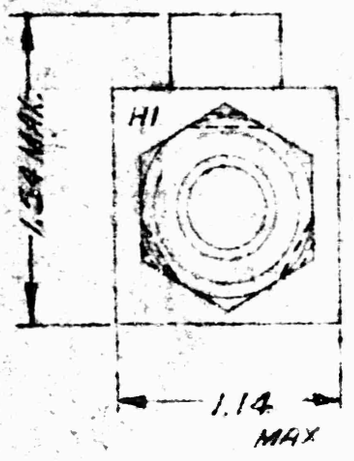




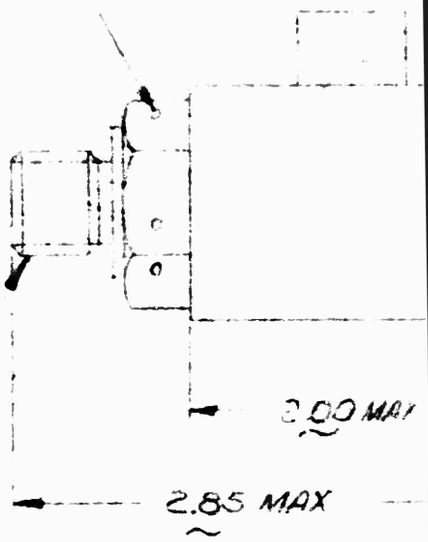


7	60 PSID	
8	8 PSID	

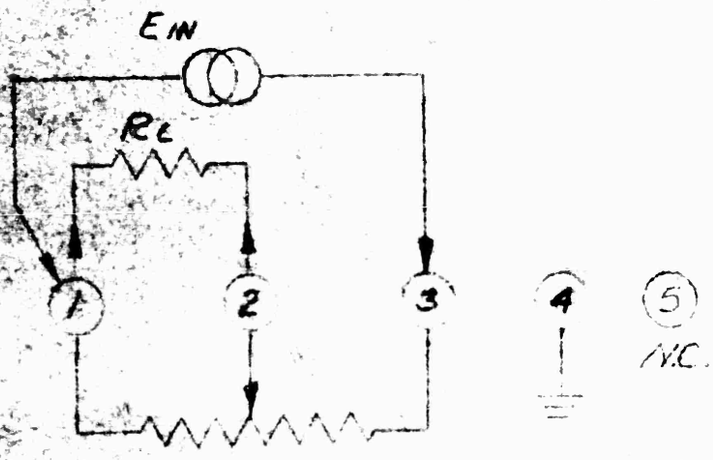




.049/.045 DIA
FOR SAFETY
WIRING



MS 33656-4 STYLE "E"
(7/16-20 UNF-3A)



INCREASING PRESSURE →

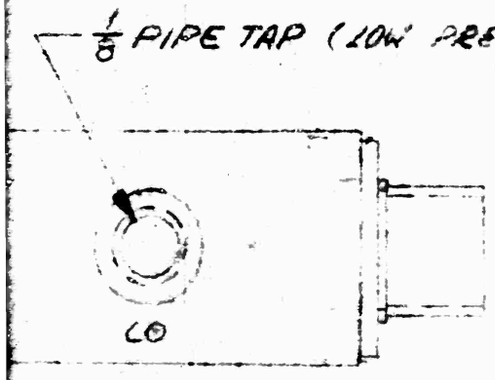
MATERIAL	G6
	G5
	G4
	G3
FINISH	G2
	G1

B

C

SPECIFICATIONS :

1. ACCURACY: .25% FS AT 121°C (1)
   1% FS AT 25°C & 180°C
   1.5% FS AT -55°C
2. VIBRATION: MIL-E-5272C PROCEDURE XII (20 G
3. RESISTANCE: 5000Ω ±5%
4. DISSIPATION: 0.5W AT 121°C AND 0.02W @ 218°C
5. RELIABILITY: 2 % / 1000 HRS MAX. FAILURE RA
6. LIFE: 1800 HRS AND 6000 CYCLES MIN WITH LES
   0.5% FS ERROR CHANGE.
7. PROOFPRESSURE: +150% AND -60% OF RANGE
8. RESPONSE TIME: 5 SECONDS MAX.
9. SENSITIVITY: 1% FS
10. VIBRATION EFFECT: 1% FS
11. WEIGHT: 0.5 LB MAX.
12. DESIGN LOAD IMPEDANCE: 100K ±5%
13. IDENTIFICATION PER MIL-P-6906 AS SHOWN



TRANSMITTER, PRESSURE	
PART NO.	
STOCK NO.	
CONTRACT NO.	
MFG PART NO.	300015

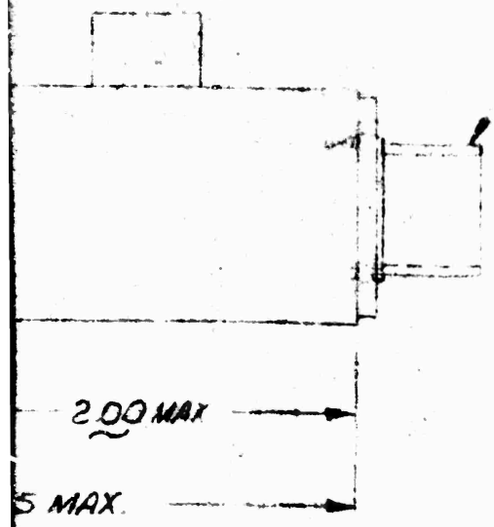
(3) (4)

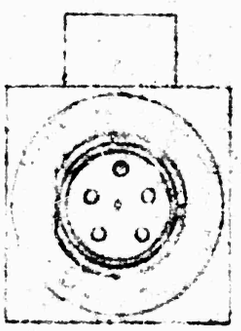
TELECTRO-MEK, INC.

SUGGESTED IDENTIFICATION

DIA
ETY

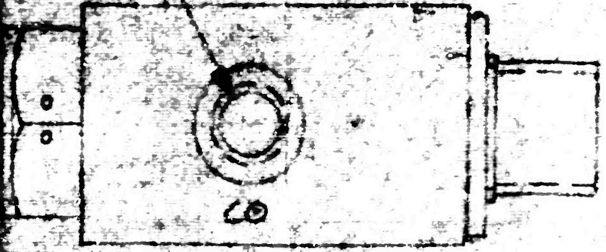
MS27034H10B5P (TO MATE MS 24266-R-10-B-5S)





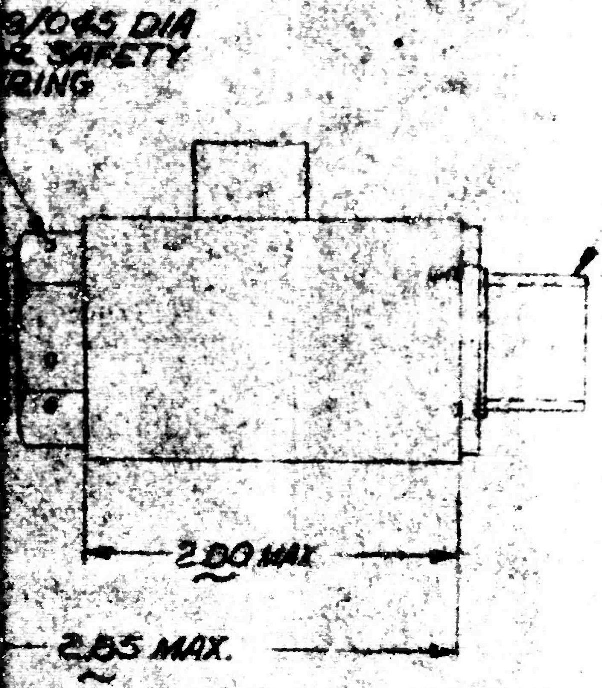
NOTES :

(1) TOTAL ERROR BAND WITH PRESSURE DITHER.
(2) LOW PRESSURE BOSS & ELECTRICAL CONNEC
LOCATIONS MAY BE INTERCHANGED
(3) SEE PURCHASE ORDER FOR CONTRACT

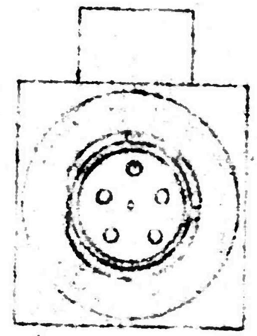


TRANSMITTER, PRESSURE
PART NO.
STOCK NO.
CONTRACT NO.
MFG PART NO. 300015
TELECTRO-MEK, INC.
U S

SUGGESTED IDENTIFICATION



MS27034H10B 5P (TO MATE MS 24266-R-10-B



NOTES :

1. TOTAL ERROR BAND WITH PRESSURE DITHER.
2. LOW PRESSURE BOSS & ELECTRICAL CO LOCATIONS MAY BE INTERCHANGED
3. SEE PURCHASE ORDER FOR CONTR
4. " " " " PART N

D

G6	G5	G4	G3	G2	G1	ITEM	PART NUMBE
QUANTITY PER GROUP							

UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES

TOLERANCES

BASIC DIM.	TWO PLACE DECIMALS	THREE PLACE DECIMALS	ANGLES
[illegible]	[illegible]	[illegible]	±1/2°

SIGNATURE & DATE	
DRAWN	[illegible]
CHKD.	
MECH. APPVL.	
ELECT. APPVL.	
APPD.	
APPD.	

G6
G5
G4
G3
G2
G1

3 | 2 | 1

AT 121°C
AT 25°C & 180°C
AT -55°C
5272C PROCEDURE XIV (20 G)
0 Ω ±5%
AT 121°C AND 0.02 W @ 218°C MAX.
/1000 HRS MAX. FAILURE RATE
6000 CYCLES MIN WITH LESS THAN
R CHANGE.
0% AND -50% OF RANGE
SECONDS MAX.

1% FS

DANCE: 100K ±5%
PER MIL-P-6906 AS SHOWN BELOW

A	ORIGINAL ISSUE	REVISIONS	
ZONE	ISS B	CHKD. BY & DATE [illegible] 1-1-63	APPD. BY & DATE [illegible] 1/1/63
		DESCRIPTION	
D-3		NOTE 4 WAS ". AND 0.1 W@ 18[illegible]"	
G-4		NOTE 7 WAS " OVER PRESSURE [illegible]"	
F-3		NOTE 12 WAS "... 100K OR [illegible]"	
F-3		NOTE 13 WAS "PART No. 300015 [illegible] FOR TELECTRO-MEK, INC."	
E-3		ADDED SUGGESTED [illegible]	
D-4		"MS27034H10BSP" WAS "MIL C-[illegible]"	
D-3		DELETED ".63 DIA" & ".90 MAX" [illegible]	
C-5		"2.00 MAX." WAS "1.85 MAX."	
C-6		"[illegible] MAX." WAS "1.06 MAX. TYPICAL OR MAX. DIA."	
D-1		ADDED "1.64 MAX."	
F-7		ADDED PART NO. 8	
B-4		ADDED NOTE 8	
ZONE	C	[illegible]	[illegible]
E-3		DELETED MFG MODEL [illegible]	

MITTER, PRESSURE

NO.
NO. 300015 — 3, 4

CTRO-MEK, INC
U S

IDENTIFICATION

MS24266-R-12 8-98)

300015

TH PRESSURE DITHER.
SS & ELECTRICAL CONNECTOR
BE INTERCHANGED
ECOR FOR CONTRACT NUMBER

MITTER, PRESSURE

T NO.

T NO. 300015

CTRO-MEK, INC.
U.S.A.

3
4

ED IDENTIFICATION

MATE MS 2-266-R-10 B-35)

300015 | G

WITH PRESSURE DITHER.
BOSS & ELECTRICAL CONNECTOR
BE INTERCHANGED
ORDER FOR CONTRACT NUMBER
" " PART NUMBER

F

G4	G3	G2	G1	ITEM	PART NUMBER	DESCRIPTION

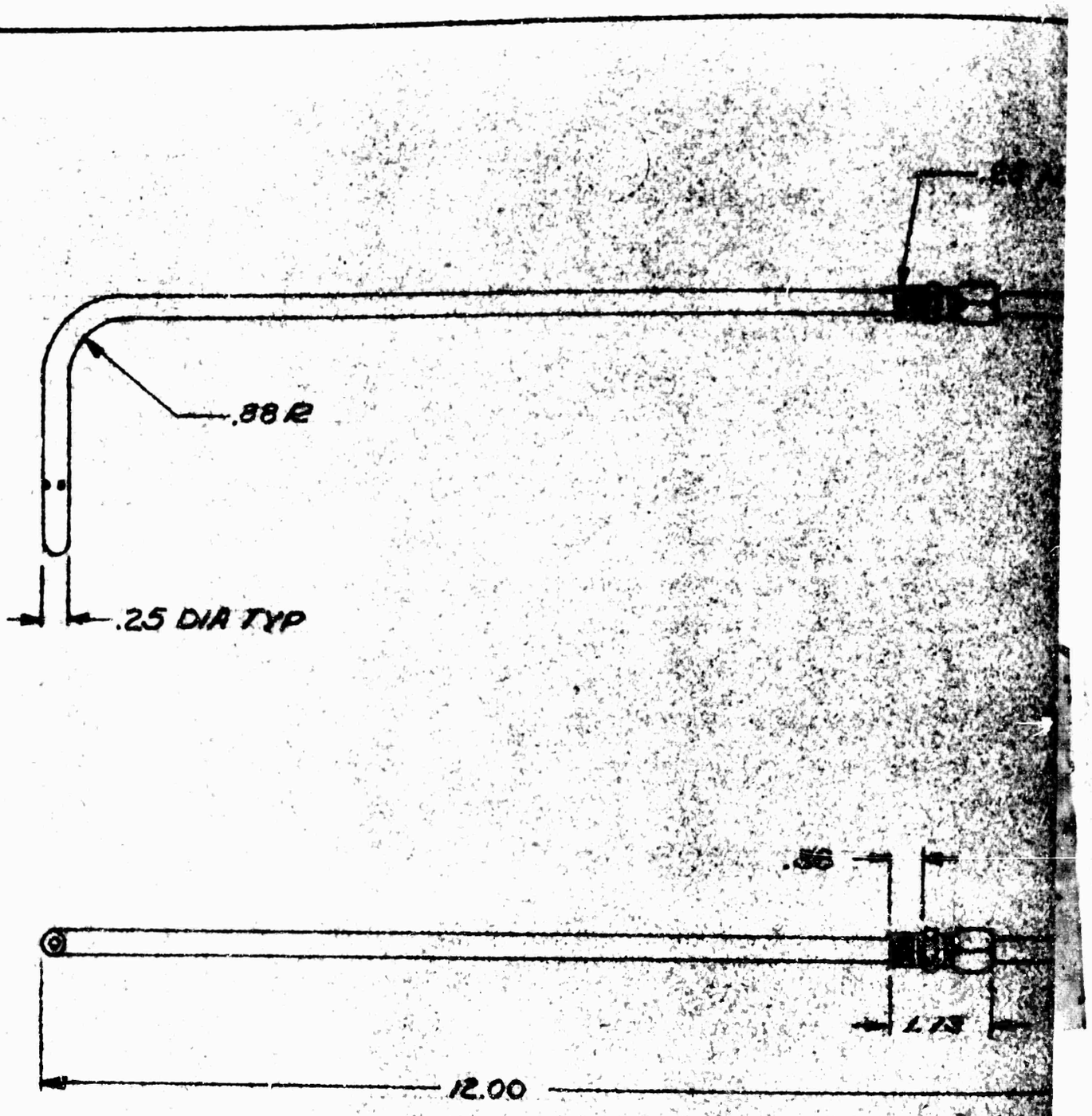
TY PER GROUP — LIST OF MATERIAL

IFIED	SIGNATURE & DATE	
CLUDE	DRAWN	
	CHKD.	
	ENGR. APPVL.	
	MFG. APPVL.	
	QUAL. APPVL.	

TELECTRO-MEK, INC.
FORT WAYNE, INDIANA

DWG. TITLE
TRANSMITTER, PRESSURE

A



GROUP	NEXT ASSEMBLY	REV.	PROP.	EFF. S/N
G6				
G5				
G4				
G3				
G2				
G1				

APPLICATION

G6 G5 G4

QUANTITY

UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES AND TOLERANCES APPLIED OR PLATING

TOLERANCES

BASIC DIM.	TWO PLACE DECIMALS	THREE PLACE DECIMALS
UNDER 6	±.02	±.005
6 to 24 Incl.	±.03	±.010
OVER 24	±.06	±.015

COMMERCIAL TOLERANCES APPLY TO STOCK

REMOVE ALL BURRS & SHARP EDGES

SCREW THREADS PER NBS H-28

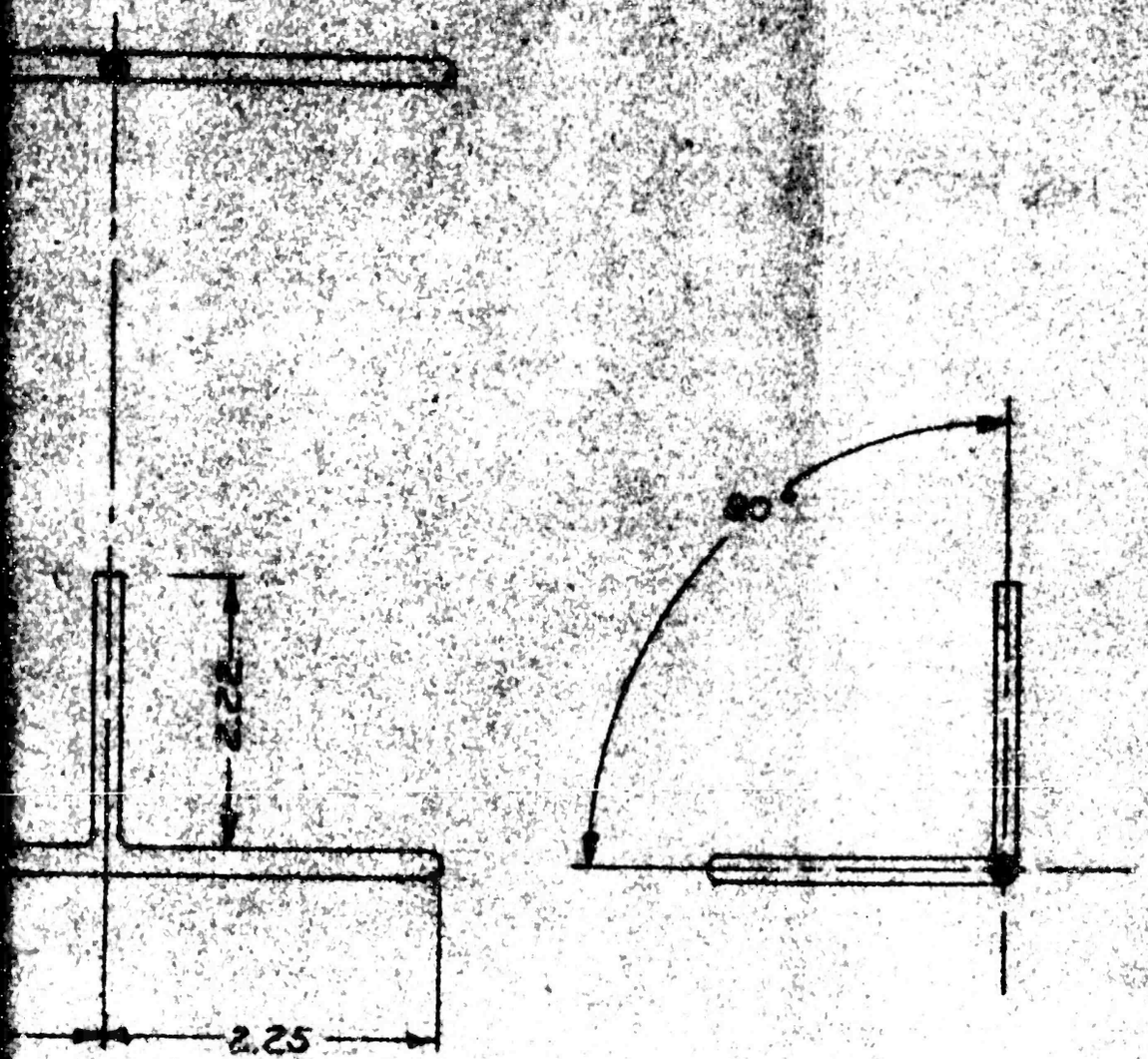
RIAL

1

200327

REVISIONS			
LTR	DESCRIPTION	APVD. BY & DATE	
A	ORIGINAL ISSUE		

NPT.



G4	G3	G2	G1	ITEM	PART NUMBER	DESCRIPTION
TY PER GROUP						LIST OF MATERIAL

CIFIED
INCLUDE NISHES
ANGLES
±½°
OCK SIZES
OES

SIGNATURE & DATE

DRAWN	[illegible]
CHKD.	
MFGR. APPVL.	
ELECT. APPVL.	
APVD.	
APVD.	

Code 16058

TELECTRO-MEK, INC.
FORT WAYNE, INDIANA

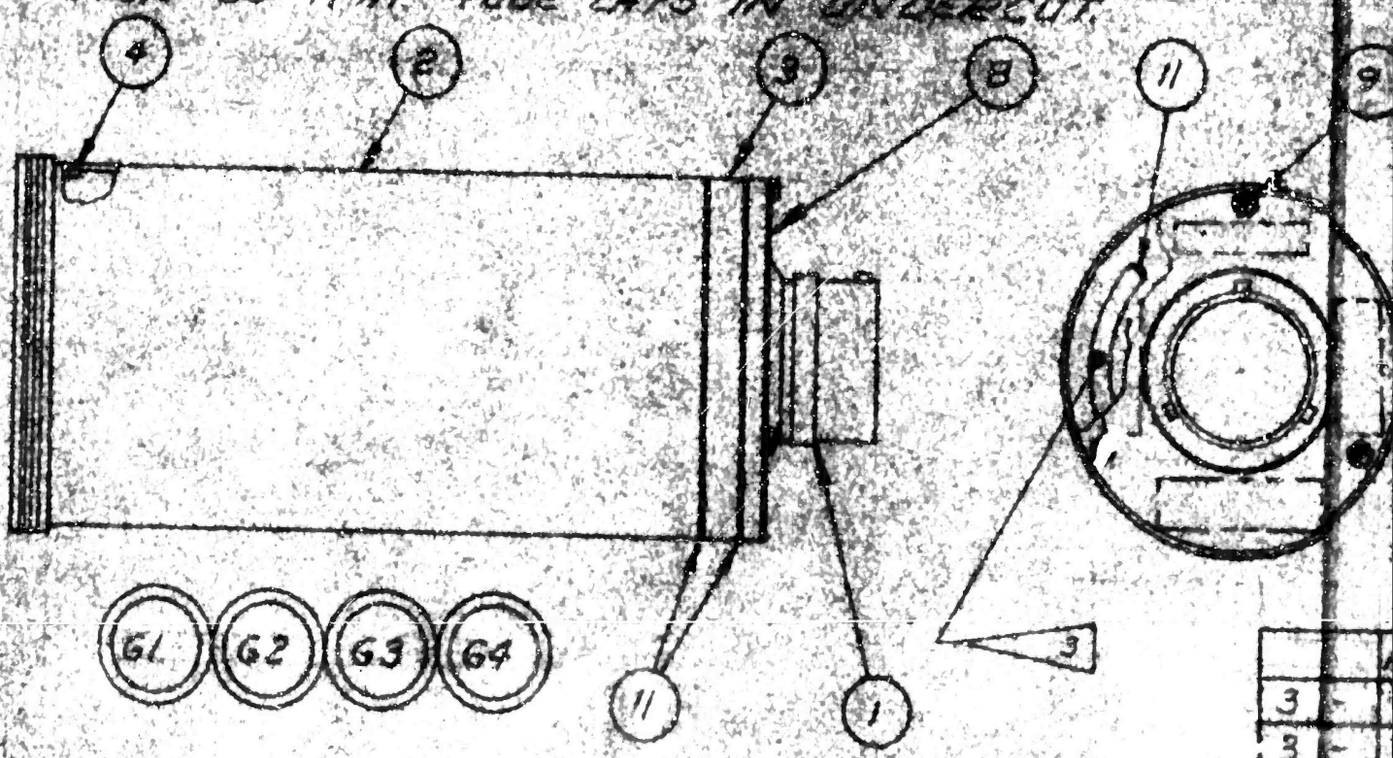
DWG. TITLE PROBE, PITOT STATIC - C-V 201-7

B | 200327

SCALE NONE | DO NOT SCALE DWG. | DWG. SIZE | SHEET OF

NOTES:

1. HELIUM FILL: AT LEAST 98 PERCENT PURITY, FREE OF DUST PARTICLES, AND CONTAINING NOT MORE THAN 0.006 MILLIGRAM OF WATER VAPOR PER LITER (DEWPOINT -65°C) AT ATMOSPHERIC PRESSURE
2. INDICATOR TO BE HERMETIC SEALED PER MIL-I-7053, PARAGRAPH 3.3.3.2.
3. AFTER INDICATOR HAS BEEN FILLED CRIMP AND THEN SOLDER FILL EVACUATION TUBE. BEND TUBE OVER SO THAT TUBE LAYS IN UNDERCUT.



4. COLOR TO BE APPROXIMATELY SAME AS COLOR #37038 PER FED. STD 595.

3	-
3	-
1	-
4	PR
	PR

NOW 64 0512 F

G6	G5	G4	G3
QUANTITY PER G			

MATERIAL

FINISH

NEXT ASSEMBLY	REV.	PROP.	ENG. S/N
APPLICATION			

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISH

TOLERANCES

BASIC DIA.	TWO PLACE DECIMALS	THREE PLACE DECIMALS	ANGLES
UNDER 6	±.02	±.005	
6 to 24 incl.	±.03	±.010	±½°
OVER 24	±.06	±.015	

COMMERCIAL TOLERANCES APPLY TO STOCK SIZES
REMOVE ALL BURRS & SHARP EDGES
SCREW THREADS PER MIL-S-7742

200295

A	ORIGINAL ISSUE	REVISIONS	
ISS	CHKD. BY & DATE	APPD. BY & DATE	ECN NUMBER
DESCRIPTION			

G4	G3	G2	G1	ITEM	PART NUMBER	DESCRIPTION
		AR	AR	11	SN60WRP2-032	SOLDER, TIN ALLOY
3	-	-	-	10	MS35337	WASHER, LOCK, SPLIT (CRES)
3	-	-	-	9	MS35833	SCREW, MACHINE - PAN HD (0-80 × 1/8) (CRES)
1	-	-	-	8	300095	PLATE, IDENTIFICATION - INDICATOR
	AR	-	-	7	MIL-E-5557	PAINT, BLACK ENAMEL, LUSTERLESS (TYPE IV)
	AR	-	-	6	MIL-C-15328	WASH PRIMER
		AR	-	5		HELIUM 1 2
			1	4	200288	SPACER, RING
			1	3	100109-2	TEAR STRIP
			1	2	200197-2	HOUSING, INDICATOR
			1	1	700017	INDICATOR - SUBASSEMBLY

QUANTITY PER GROUP — LIST OF MATERIAL

SIGNATURE & DATE	
DRAWN	R. Haglett 7-9-64
CHKD.	
MECH. APPVL.	
ELECT. APPVL.	
APPD.	
APPD.	
APPD.	J. Burton 1/6/65

...ECIFIED ... INCLUDE FINISHES ... ANGLES ±½° ... STOCK SIZES ... EDGES

Code 16058

TELECTRO-MEK, INC.
FORT WAYNE, INDIANA

DWG. TITLE: INDICATOR, THRUST - DIGITAL AND PERCENT

DWG. SIZE: B — 200295

SCALE ~ — DO NOT SCALE DWG. — SHEET — OF

2.0 INDIVIDUAL AND QUALIFICATION TEST DATA ON TME-303 SERIAL NO. 1 AND SERIAL NO. 2

APPENDIX II

This appendix consists of the following drawings which are included herewith and constitute part of this Test Report.

Quantity	Drawing	Title
1	P1264	Individual Test Transmitter Serial No. 1
1		Calibration Data Card Serial No. 1
1	P1264	Individual Test Transmitter Serial No. 2
1		Calibration Data Card Serial No. 2
1	P1264	Individual Test Transmitter Serial No. 3
1		Calibration Data Card Serial No. 3
1	P1264	Individual Test Transmitter Serial No. 4
1		Calibration Data Card Serial No. 4
1	P1264	Individual Test Transmitter Serial No. 5
1		Calibration Data Card Serial No. 5
1	P1264	Individual Test Transmitter Serial No. 6
1		Calibration Data Card Serial No. 6
1	P1264	Individual Test Transmitter Serial No. 7
1		Calibration Data Card Serial No. 7
1	P1264	Individual Test Transmitter Serial No. 8
1		Calibration Data Card Serial No. 8
1	P1264	Individual Test Transmitter Serial No. 9
1		Calibration Data Card Serial No. 9
1	P1264	Individual Test Transmitter Serial No. 10
1		Calibration Data Card Serial No. 10
1	P1264	Individual Test TME-303 Gross Thrust Computer Serial No. 1
1	P1264	Individual Test TME-303 Gross Thrust Computer Serial No. 2
1	P1264	Individual Test TME-303 Ram Drag Computer Serial No. 1
1	P1264	Individual Test TME-303 Ram Drag Computer Serial No. 2
1	P1263	Individual Test TME-303 Indicator Serial No. 1
1	P1263	Individual Test TME-303 Indicator Serial No. 2

APPENDIX II (cont.)

Quantity	Drawing	Title
1	P	Individual Test - TME-303 Probe Assembly Serial No. 1
1	P	Individual Test - TME-303 Probe Assembly Serial No. 2
1	P1264	Individual Test - TME-303 System Serial No. 1
1	P1223	Test Record A3D Net Thrust System Serial No. 1
1		System Accuracy Tests Gross TME-303 Serial No. 1
1		System Accuracy Tests Net TME-303 Serial No. 1
1		System Accuracy Tests Percent TME-303 Serial No. 1
1	P1264	Individual Test TME-303 System Serial No. 2
1	P1223	Test Record A3D Net Thrust System Serial No. 2
1		System Accuracy Tests Gross TME-303 Serial No. 2
1		System Accuracy Tests Net TME-303 Serial No. 2
1		System Accuracy Tests Percent TME-303 Serial No. 2

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA SO. BEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST TRANSMITTER

TEST	CHECK O.K.	COMMENTS
1. Physical Examination	✓	
2. Scale and Friction Error	✓	
3. Position Error	✓	
4. Response Time	✓	
5. Sensitivity	✓	

Test Specification - Per Proposal P62N05-3 at Room Temperature

Part No. 300015-2 Serial No. 1

Date 11-25-64

Tester Dashiop

Accept ✓ Reject

Inspector [signature]

PLATE NO 1264

TRANSMITTER PART NO. 300015-2

SERIAL NO. 1

CALIBRATION DATA CARD

Customer: Telectro-[illegible] | Spec: TP 451319[illegible] Rev. A.

P.O.: P 10892 | Dwg: 451319X-

W.O.: 12-451319-067 #1 | Acct. No

Assbld. By: AA | Date 3-24 | Set Up By: [illegible] | Date 3-24

	Increasing					Decreasing			
PSIA	STA +25°C	DYN +25°C	DYN -55°C	DYN +121°C	PSI	STA +25°C	DYN +25°C	DYN -55°C	DYN +121°C
0	015	010	017	007		015	010	011	007
10	175	177	181	172		180	177	182	175
20	337	337	342	332		342	340	345	337
30	497	500	501	495		504	503	503	497
40	657	658	662	654		665	662	665	658
50	821	821	826	816		823	823	827	818
60	989	989	991	983		989	989	991	983

PIN #4 GROUNDED TO CASE

Pressure Transducer

Total Res. 528 Ω At +25°C | Total Res. Ω At °C

Ratio Res. Term.	AB AC	Hysteresis		Over Press.		Temp. Error	Hot Cold
Continuity Between		Friction		Case Leak		Current Rating	
Repeatability		Resolution		Diff. Bellows Leak		Damping	
Continuity		Vibration		Insulation Break Down		Nat. Freq.	
Linearity		Cont. Res.		Resistance to Ground		Deviations Over	

VISUAL INSPECTION RECORD 4 | 3-26-64

FINAL CALIBRATION BY ____ DATE ____

FINAL ACCEPTANCE BY ____ DATE ____

MODEL NO. 451319X-

SER. NO. 67-1

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA SO. BEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST TRANSMITTER

TEST	CHECK O.K.	COMMENTS
1. Physical Examination	✓	
2. Scale and Friction Error	✓	
3. Position Error	✓	
4. Response Time	✓	
5. Sensitivity	✓	

Test Specification - Per Proposal P62N05-3 at Room Temperature

Part No. 300015 - 2 Serial No. 2

Date 11·25·64

Tester [signature]

Accept ✓ Reject

Inspector [signature]

PLATE NO 1264

TRANSMITTER PART NO. 300015-2

SERIAL NO. 2

CALIBRATION DATA CARD

Customer: Telecrro-Tek
P.O.: P 10892
W.O.: 12-451319-067
Spec: TP 451319.05, Rev. A
Dwg: 451319X-A

PSIA	Increasing STA +25°C	DYN +25°C	DYN -55°C	DYN +121°C	PSI	Decreasing STA +25°C	DYN +25°C	DYN -55°C	DYN +121°C
0	010	010	013	004		010	010	013	007
10	174	174	[illegible]	168		174	174	178	171
20	336	337	340	330		336	337	341	332
30	500	500	504	493		500	500	506	493
40	661	662	[illegible]	654		663	663	[illegible]	660
50	824	824	[illegible]	820		824	824	[illegible]	820
60	988	988	990	984		988	988	990	984

Pin #4 grounded to case.

Pressure Transducer

5139 at +25

AC

Hysteresis · Friction · Resolution · Vibration · Temp Error · Current Rating · Damping · Nat. Freq · Repeatability · Continuity · Linearity · Resistance to Ground · Deviations Over

VISUAL INSPECTION RECORD AUG 20 1964

FINAL CALIBRATION BY ______ DATE SEP 3 1964

FINAL ACCEPTANCE BY ______ DATE SEP 3 1964

MODEL NO. 451319X-A

67-21

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA SO. BEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST TRANSMITTER.

TEST	CHECK O.K.	COMMENTS
1. Physical Examination	✓	
2. Scale and Friction Error	✓	
3. Position Error	✓	
4. Response Time	✓	
5. Sensitivity	✓	

Test Specification - Per Proposal P62N05-3 at Room Temperature

Part No. 300015 - 4 Serial No. 3

Date 11.25.64

Tester [signature]

Accept ✓ Reject

Inspector [signature]

PLATE No 1264

TRANSMITTER PART NO. 300015-4

SERIAL NO. 3

CALIBRATION DATA CARD

Customer: Telectro-Mek
P.O. P 10892
W.O. 12-451319-067 # 2
Spec. TP 451319.05, Rev. A
Dwg. 451319Y-
Chg.
Acct No
Set Up By: [illegible]
Date

PSIA	Increasing STA +25°C	Increasing DYN +25°C	Increasing DYN -55°C	Increasing DYN +121°C	PSI	Decreasing STA +25°C	Decreasing DYN +25°C	Decreasing DYN -55°C	Decreasing DYN +121°C
0	009	009	010	000		009	009	010	000
2.5	165	167	173	150		127	176	178	153
5	331	332	333	305		337	337	343	316
7.5	495	495	500	469		505	503	508	482
10	652	653	660	629		667	665	667	640
12.5	815	818	822	791		824	824	830	803
15	983	983	986	955		983	983	996	955

[illegible] 2.72 [illegible] at +25

Ratio Res. Trim. | Hysteresis | [illegible] | Temp Error | Cold
Calibr. Between | Friction | [illegible] | Current Rating
Repeatability | Resolution | Dim. Bellows Leak | Damping
Continuity | Vibration | Insulation Break Down | Nat. Freq.
Linearity | Cont. Res. | Resistance to Ground | Deviations Over

VISUAL INSPECTION RECORD | 11 | [illegible]

FINAL CALIBRATION BY ____ DATE OCT 14 [illegible]

FINAL ACCEPTANCE BY ____ DATE OCT 14 [illegible]

Pressure Transducer

MODEL NO. B-1.5-15D

67-3

4513195

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA SO. BEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST TRANSMITTER

TEST	CHECK O.K.	COMMENTS
1. Physical Examination	✓	
2. Scale and Friction Error	✓	
3. Position Error	✓	
4. Response Time	✓	
5. Sensitivity	✓	

Test Specification - Per Proposal P62N05-3 at Room Temperature

Part No. 300015 - 4 Serial No. 4

Date 11·25·64

Tester RSshop

Accept ✓ Reject

Inspector [illegible]

PLATE NO 1264

TRANSMITTER PART NO. 300015-4

SERIAL NO. 4

CALIBRATION DATA CARD

SER NO 67-4

Customer TELECTRO - MSK — TP 451319.05 REV A

P.O. P 10892 — 451319Y-A

W.O. 12-451314-867 #2

Acc'td. By A A — Date 10-20 — A A — Date 10-20

	INCREASING				DECREASING			
	STA	DYN	DYN	DYN	STA	DYN	DYN	DYN
PSIA	+25°C	+25°C	-55°C	+121°C	25°C	+25°C	-55°C	+121°C
0	[illegible]	[illegible]	027	017	025	02[illegible]	031	017
2.5	[illegible]	187	199	17[illegible]	190	[illegible]	196	177
5	346	34[illegible]	353	[illegible]	[illegible]	[illegible]	356	342
7.5	512	[illegible]	516	50[illegible]	[illegible]	516	524	[illegible]
10	673	67[illegible]	678	66[illegible]	67[illegible]	67[illegible]	680	668
12.5	8[illegible]	[illegible]	8[illegible]	8[illegible]	838	838	843	830
15	1.0	1.0	1.0	99[illegible]	1.0	1.0	1.0	[illegible]

PRESS. TRANS.

MODEL NO. 451319Y-

Repeatability — Continuity — Linearity — Temp. Error

VISUAL INSPECTION RECORDS

FINAL CALIBRATION BY — DATE

FINAL ACCEPTANCE — DATE

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA SO. BEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST TRANSMITTER

TEST	CHECK O.K.	COMMENTS
1. Physical Examination	✓	
2. Scale and Friction Error	✓	
3. Position Error	✓	
4. Response Time	✓	
5. Sensitivity	✓	

Test Specification - Per Proposal P62N05-3 at Room Temperature

Part No. 300015 - 6 Serial No. 5

Date 11.25.64

Tester [signature]

Accept ✓ Reject

Inspector [signature]

PLATE NO 1264

TRANSMITTER PART NO. 300015-6

SERIAL NO. 5

67-5

CALIBRATION DATA CARD

Customer	Telectro-Mek	Spec.	TP 451319.05, Rev. A
P.O.	P 10892	Dwg.	451319X- Chg.
W.O.	12-451319-067 #3	Acct No.	
Assbld By	A A Date 8-17	Set Up By	A A Date 5-20

Increasing PSID	STA +25°C	DYN +25°C	DYN -55°C	DYN +121°C	Decreasing PSI	STA +25°C	DYN +25°C	DYN -55°C	DYN +121°C
0	015	015	015	014		016	017	015	019
25	178	181	178	173		176	181	178	179
5	341	343	342	333		344	342	343	341
7.5	496	497	506	494		504	504	508	501
10	660	666	665	660		667	667	670	665
12.5	825	826	829	821		830	830	830	827
15	991	991	989	991		991	991	989	991

Pin #4 Grounded to Case

Pressure Transducer

Total Res. 9945 Ω at +25 °C   Total Res. ___ Ω at ___ °C

Ratio – Res Term.	AB AC	Hysteresis		Over Press		Temp. Error	Hot / Cold
Calibtd. Between #		Friction		Case Leak		Current Rating	
Repeatability		Resolution		Dif. Between Leads		Damping	
Continuity		Vibration		Insulation Break Down		Nat. Freq.	
Linearity		Cont. Res.		Resistance to Ground		Deviations Over	

VISUAL INSPECTION RECORD 4   AUG 3 0 1964

FINAL CALIBRATION BY ______ DATE SEP 6 1964

FINAL ACCEPTANCE BY ______ DATE SEP 8 1964

MODEL NO. 451319X-D-15-5

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA   SO. BEND, INDIANA   LONG ISLAND CITY, N. Y.

2700 Nutman Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST TRANSMITTER

TEST	CHECK O.K.	COMMENTS
1. Physical Examination	✓	
2. Scale and Friction Error	✓	
3. Position Error	✓	
4. Response Time	✓	
5. Sensitivity	✓	

Test Specification - Per Proposal P62N05-3 at Room Temperature

Part No. 300015 - 6   Serial No. 6

Date 11-25-64

Tester [signature]

Accept ✓   Reject

Inspector [signature]

PLATE NO 1264

TRANSMITTER PART NO. 300015-6

SERIAL NO. 6

CALIBRATION DATA CARD

Customer: Telectro-Mek — TP 451319.05, Rev. A

P.O.: P 10892 — 451319Y-D

W.O.: 12-451319-067 #3

Set Up By: Rose

67-6

Pressure Transducer

Increasing					Decreasing				
PSID	STA +25°C	DYN +25°C	DYN -55°C	DYN +121°C	PSI	STA +25°C	DYN +25°C	DYN -55°C	DYN +121°C
0	.009	.009	.010	.009		.014	.009	.012	.010
2.5	.176	.176	.177	.173		.176	.176	.179	.176
5.	.337	.338	.342	.336		.340	.338	.342	.338
7.5	.498	.500	.503	.497		.502	.500	.503	.497
10.	.662	.663	.674	.659		.665	.665	.675	.661
12.5	.824	.826	.832	.822		.827	.827	.832	.822
15.	.988	.989	.990	.986		.989	.989	.990	.986

5173 +25

AB AC

Temp Error

Rated Range

Damping

Continuity

Nat. Freq.

Linearity

Cont. Res.

Resistance to Ground

Deviations Over

VISUAL INSPECTION RECORD — SEP 1 1964

MODEL NO. D-15-50

FINAL CALIBRATION BY — DATE

FINAL ACCEPTANCE BY — DATE 1964

451319Y-

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA   SO. BEND, INDIANA   LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST TRANSMITTER

TEST	CHECK O.K.	COMMENTS
1. Physical Examination	✓	
2. Scale and Friction Error	✓	
3. Position Error	✓	
4. Response Time	✓	
5. Sensitivity	✓	

Test Specification - Per Proposal P62N05-3 at Room Temperature

Part No. 300015 - 5   Serial No. 7

Date 11·25·64

Tester [signature]

Accept ✓   Reject

Inspector [signature]

PLATE NO 1264

TRANSMITTER PART NO. 300015-5

SERIAL NO. 7

CALIBRATION DATA CARD

Customer: Telectro-Mek | Doc: TP 451319.05, Rev. A
P.O.: P 10892 | Dwg: 451319Y- | Chg:
W.O.: 12-451319-067 #4 | Acc. No.:
Audited By: Date: | Set Up By: AA Date: 9-29

Increasing					Decreasing				
PSIA	STA +25°C	DYN +25°C	DYN -55°C	DYN +121°C	PSI	STA +25°C	DYN +25°C	DYN -55°C	DYN +121°C
0	009	009	015	000		009	009	015	000
5	171	171	176	143		172	172	176	148
10	338	338	345	314		339	338	345	316
15	505	505	508	478		506	506	509	484
20	668	668	675	646		671	671	676	650
25	829	829	833	808		831	831	839	812
30	986	986	993	966		986	986	993	966

B.T. 6 SEP 24 1964

Total Res 5061 Ω at +25 °C | Total Res | at °C

Ratio Res. Term.	AB AC	Hysteresis	GCC 6	Over Press	GCC 6	Temp Error	Hot Cold GCC 6
Calibtd. Between		Friction		Case Leak	GCC 6	Current Rating	
Repeatability	GCC 6	Resolution		Diff. Bellows Leak		Damping	
Continuity	GCC 6	Vibration	GCC 6	Insulation Break Down		Nat. Freq.	
Linearity	GCC 6	Cont. Res.	GCC 6	Resistance to Ground	GCC 6	Deviations Over	

VISUAL INSPECTION RECORD GCC 6 SEP 28 1964

FINAL CALIBRATION BY GCC 6 DATE OCT 14 1964

FINAL ACCEPTANCE BY GCC 6 DATE OCT 14 1964

Pressure Transducer

SER NO 67-7

MODEL NO. A-3-33

451319Y-

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA SO. BEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST TRANSMITTER

TEST	CHECK O.K.	COMMENTS
1. Physical Examination	✓	
2. Scale and Friction Error	✓	
3. Position Error	✓	
4. Response Time	✓	
5. Sensitivity	✓	

Test Specification - Per Proposal P62N05-3 at Room Temperature

Part No. 300015 - 5 Serial No. 8

Date 11-25-64

Tester RSshop

Accept ✓ Reject

Inspector [signature]

PLATE NO 1214

TRANSMITTER PART NO. 300015-5

SERIAL NO. 8

CALIBRATION DATA CARD

Customer Telectro-Mek | TP 451319.05, Rev. A
P.O. P 10892 | 451319Y-A
W.O. 12-451319-067
Rose | Rose

67-8

Pressure Transducer

Increasing					Decreasing				
PSIA	STA +25°C	DYN +25°C	DYN -55°C	DYN +121°C	PSI	STA +25°C	DYN +25°C	DYN -55°C	DYN +121°C
0			010	000		001	[illegible]	010	000
5	173	172	[illegible]	149		174	174	179	151
10	341	341	[illegible]	315		344	344	351	316
15	505	505	[illegible]	478		505	509	616	478
20	670	670	[illegible]	[illegible]		670	670	678	645
25	830	530	[illegible]	805		530	330	837	807
30	986	984	[illegible]	962		989	989	992	[illegible]

5891 +25

Ratio AB AC

Calibrated Between

Repeatability

Continuity

Linearity

Insulation Resistance to Ground

Rating

Damping

Nat. Freq.

Deviations Over

VISUAL INSPECTION RECORD

FINAL CALIBRATION BY _______ DATE _______ 1964

FINAL ACCEPTANCE BY _______ DATE _______

MODEL NO. 451319Y-

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA SO. BEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST TRANSMITTER

TEST	CHECK O.K.	COMMENTS
1. Physical Examination	✓	
2. Scale and Friction Error	✓	
3. Position Error	✓	
4. Response Time	✓	
5. Sensitivity	✓	

Test Specification - Per Proposal P62N05-3 at Room Temperature

Part No. 300015 - 8 Serial No. 9

Date 11.25.64

Tester [signature]

Accept ✓ Reject

Inspector [signature]

PLATE NO 1264

TRANSMITTER PART NO. 300015-8

SERIAL NO. 9

CALIBRATION DATA CARD

Customer: Telectro-Mek
P.O.: P 10892
W.O.: 12-451319-06 #5
Spec: TP 451319.05, Rev. A
451319Y-D

67-9

Pressure Transducer

Increasing PSIA	STA +25°C	DYN +25°C	DYN -55°C	DYN +121°C	Decreasing PSIA	STA +25°C	DYN +25°C	DYN -55°C	DYN +121°C
0	.014	.014	.014	.014		.014	.014	.014	.015
[illegible]	.169	.171	.176	.165		.174	.171	.176	.167
[illegible]	.342	.349	.350	.341		.350	.347	.350	.342
[illegible]	.502	.507	.508	.501		.512	.506	.512	.504
53	.667	.669	.673	.661		.672	.670	.673	.664
67	.836	.838	.838	.829		.841	.838	.839	.829
[illegible]	.994	.996	.996	.987		.996	.994	.996	.987

Ref. Res. 5020 +25
AB
AC

Hysteresis — Friction — Resolution — Vibration — Repeatability — Continuity — Linearity — Over Press — Line Leak — Temp Error — Rating — Damping — Nat. Freq. — Deviations Over

VISUAL INSPECTION RECORD — SEP 2 1964

FINAL CALIBRATION BY — DATE

FINAL ACCEPTANCE BY — DATE

MODEL NO D-3-50

451319Y-

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA SO. BEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST TRANSMITTER

TEST	CHECK O.K.	COMMENTS
1. Physical Examination	✓	
2. Scale and Friction Error	✓	
3. Position Error	✓	
4. Response Time	✓	
5. Sensitivity	✓	

Test Specification - Per Proposal P62N05-3 at Room Temperature

Part No. 300015-8 Serial No. 10

Date 11.25.64

Tester [signature]

Accept ✓ Reject

Inspector [signature]

PLATE NO 1264

TRANSMITTER PART NO. 300015-8

SERIAL NO. 10

CALIBRATION DATA CARD

Customer Telectro-Mek
P.O. P 10892
W.O. 12-451319-067 #5
Assbld By ______ Date ______

Spec. TP 451319,05, Rev. A
Dwg. 451319Y-D Chg.
Acct. No
Set Up By Rose Date ______

Pressure Transducer

67-10

Increasing					Decreasing				
PSID	STA +25°C	DYN +25°C	DYN +55°C	DYN +121°C	PSI	STA +25°C	DYN +25°C	DYN -55°C	DYN +121°C
0	010	010	012	002		007	007	012	005
1.3	163	165	163	163		161	165	172	168
2.7	337	337	342	337		337	339	342	337
4.0	494	476	501	493		476	476	502	494
5.3	650	654	660	652		659	655	663	652
6.7	822	826	833	823		821	827	833	823
8.0	985	986	996	983		991	988	996	983

RT 3½ 8-31-64

5061 A +25 °C

Ratio AB AC — Hysteresis — Over Press — Temp Error
Calibration Error — Friction — Rating
Repeatability — Resolution — Diff. Bellows Leak — Damping
Continuity — Vibration — Insulation Break Down — Nat. Freq.
Linearity — Cont. Res. — Resistance to Ground — Deviations Over

VISUAL INSPECTION RECORD SEP

FINAL CALIBRATION BY ______ DATE ______

FINAL ACCEPTANCE BY ______ DATE SEP

MODEL NO.

SER. NO.

451319Y

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA SO. BEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST TME-303. GROSS THRUST COMPUTER.

TEST	CHECK O.K.	COMMENTS
1. Physical Examination	✓	
2. Scale and Friction Error	✓	
3. Position Error	✓	
4. Response Time	✓	
5. Sensitivity	✓	

Test Specification - Per Proposal P62N05-3 at Room Temperature

Part No. 400041-G1 Serial No. 1

Date 25 NOV 1964

Tester [signature]

Accept ✓ Reject

Inspector [signature]

PLATE NO. 1264

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA SO. BEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST TME-303 CROSS THRUST COMPUTER

TEST	CHECK O.K.	COMMENTS
1. Physical Examination	✓	
2. Scale and Friction Error	✓	
3. Position Error	✓	
4. Response Time	✓	
5. Sensitivity	✓	

Test Specification - Per Proposal P62N05-3 at Room Temperature

Part No. 400041-G1 Serial No. 2.

Date 25 NOV 1964

Tester [signature]

Accept ✓ Reject

Inspector [signature]

PLATE NO 1264

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA   SO. BEND, INDIANA   LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST TME-303 RAM DRAG COMPUTER.

TEST		CHECK O.K.	COMMENTS
1.	Physical Examination	✓	
2.	Scale and Friction Error	✓	
3.	Position Error	✓	
4.	Response Time	✓	
5.	Sensitivity	✓	

Test Specification - Per Proposal P62N05-3 at Room Temperature

Part No. 400041-G2 Serial No. 1

Date 25 NOV 1964

Tester [signature]

Accept ✓ Reject

Inspector [signature]

PLATE NO 1264

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA SO. BEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST TME-303 RAM DRAG COMPUTER

TEST	CHECK O.K.	COMMENTS
1. Physical Examination	✓	
2. Scale and Friction Error	✓	
3. Position Error	✓	
4. Response Time	✓	
5. Sensitivity	✓	

Test Specification - Per Proposal P62N05-3 at Room Temperature

Part No. 400041-G2 Serial No. 2.

Date 25 NOV 1964

Tester P.D. Shonyo

Accept ✓ Reject

Inspector [signature]

PLATE NO 1264

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA SO. BEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttmen Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST TME-303 INDICATOR

TEST	CHECK O.K.	COMMENTS
1. Physcial Examination	✓	
2. Scale and Friction Error	✓	
3. Position Error	✓	
4. Response Time	✓	
5. Sensitivity	✓	
6. Sealing	✓	
7. Lighting	✓	Lighting Tests t(MIL-L-25467B

Test Specification - Per Proposal P62N05-3 at Room Temperature

Part No. 200295-G4 Serial No. 1

Date 25 NOV 1964

Tester [signature]

Accept ✓ Reject

Inspector [signature]

PLATE No 1263

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA SO. BEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST TMIE-303 INDICATOR

TEST	CHECK O.K.	COMMENTS
1. Physcial Examination	✓	
2. Scale and Friction Error	✓	
3. Position Error	✓	
4. Response Time	✓	
5. Sensitivity	✓	
6. Sealing	✓	
7. Lighting	✓	Lighting Tests to MIL-L-25467B

Test Specification - Per Proposal P62N05-3 at Room Temperature

Part No. 200295-G4 Serial No. 2

Date 25 NOV 1964

Tester [signature]

Accept ✓ Reject

Inspector [signature]

PLATE No 1263

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA SO. BEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST - TME-303 PROBE ASSEMBLY

I. TEST PROCEDURE

1. Seal P_t and P_s holes with masking tape
2. Apply 45 PSI pressure to side hole
3. Immerse in water to check for leaks
4. Apply 45 PSI pressure to end hole
5. Immerse in water to check for leaks

II. TEST	CHECK O.K.	COMMENTS
1. Physical Examination	✓	
2. Leakage	✓	

Part No. CV 20 - 7 Serial No. 1

Date 25 NOV 1964

Tester [signature]

Accept Reject

Inspector [signature]

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA SO. BEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST - TME-303 PROBE ASSEMBLY

I. TEST PROCEDURE

1. Seal P_t and P_s holes with masking tape
2. Apply 45 PSI pressure to side hole
3. Immerse in water to check for leaks
4. Apply 45 PSI pressure to end hole
5. Immerse in water to check for leaks

II. TEST	CHECK O.K.	COMMENTS
1. Physical Examination	✓	
2. Leakage	✓	

Part No. CV 201-7 Serial No. 2.

Date 25 NOV 1964

Tester [signature]

Accept Reject

Inspector [signature]

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA   SO. BEND, INDIANA   LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST TMC -303 SYSTEM

TEST	CHECK O.K.	COMMENTS
1. Physical Examination	✓	
2. Scale and Friction Error	✓	
3. Position Error	—	NOT APPLICABLE
4. Response Time	✓	
5. Sensitivity	✓	

Test Specification - Per Proposal P62N05-3 at Room Temperature

Part No. 200297-1   Serial No. 1

Date 25 NOV 1964

Tester [signature]

Accept ✓ Reject

Inspector [signature]

PLATE No 1264

TEST RECORD A3D NET THRUST SYSTEM

REF: PLATE No. 1155

TESTER: Lodop

(Based on: A_7=454, A_2=685, $\frac{100\%F_n}{\delta}$=15000 MOD. No: 303 SER. No: 1 DATE: 11/25/64

SIMULATOR DIALS

TEST	P_{t7} "H_g .22	$P_{\Delta 7}$ "H_g 30.5	P_a "H_g 30.5	P_{t2} "H_g 61	$P_{\Delta 2}$ "H_g 16.3	DES. F_g 100's	IND. F_g 100's	IND. F_g MV	DES. F_n 100's	IND. F_n 100's	MEAS. F_n MV	DES. F_n/δ %	IND. F_n/δ %	OK
1	3.85	2.095	9.81	4.905	0	47	48.0/48.0	234/234	47	48.0/48.0	236/236	31.5	32.0/32.0	
2	5.54	3.37	9.81	4.905	0	94	92.7/93.0	1685/1715	94	92.7/93.0	1687/1715	62.5	62.5/62.5	
3	6.06	3.787	9.81	4.905	0	106	104.8/105.0	1925/1950	106	103.5/103.8	1927/1953	70.5	70.5/70.5	
4	6.155	3.741	9.81	4.905	0	111	108.6/108.8	2010/2030	111	108.8/108.8	2012/2030	74.0	73.5/73.5	
5	6.03	4.17	9.81	5.818	3.05	129.6	127.2/127.0	2340/2360	96	92.5/92.5	1705/1705	64.0	63.5/63.5	
6	2.04	1.308	3.64	2.525	.644	35.4	35.0/35.0	635/635	19	19.0/19.0	343/343	38.	38.0/38.0	
7	3.269	2.226	3.64	2.525	1.344	71	70.2/70.0	1270/1270	48	48.5/48.0	902/900	86.	87.5/87.5	
8	3.584	2.413	3.64	2.525	1.47	80	79.0/79.5	1440/1430	56	57.0/56.5	1054/1040	100.5	103.0/103.5	
9	.891	.5557	1.428	.990	.276	16	16.0/16.0	293/293	9.4	9.0/9.0	168/168	43.	40.0/40.0	
10	1.419	1.023	1.428	.990	.601	32	32.0/32.0	588/588	23	23.0/23.0	425/425	105.5	105.5/105.5	
11	1.515	1.041	1.428	.990	.632	34.6	34.3/34.3	630/630	25	25.0/25.0	462/458	114.5	114.5/114.5	
			Allowed:				±3% or ±1.0			±4% or ±1.0			±4%	

ACCEPTED ✓

REJECTED _____

SYSTEM ACCURACY TESTS

GYRO [illegible] THIC 303

SERIAL NO 1

TEST	ALTITUDE	GYRO THICKNESS	CALCULATED THICKNESS	SCALE ERROR	FRICTION ERROR
1	S.L.	48.0	[illegible]	+1.0	X
2	S.L.	92.7	[illegible]	-1.3	X
3	S.L.	104.8	[illegible]	-1.2	X
4	S.L.	108.6	[illegible]	-2.4	X
5	S.L.	127.0	[illegible]	-2.6	X
6	25,000	35.0	[illegible]	-.4	X
7	25,000	70.0	[illegible]	-1.0	X
8	25,000	79.0	[illegible]	-1.0	X
9	45,000	16.0	[illegible]	0	X
10	45,000	32.0	[illegible]	0	X
11	45,000	34.3	[illegible]	-.3	X
11	45,000	34.3	[illegible]	-.3	0
10	45,000	32.0	[illegible]	0	0
9	45,000	16.0	[illegible]	0	0
8	25,000	78.5	[illegible]	-1.5	.5
7	25,000	70.0	[illegible]	-1.0	0
6	25,000	35.0	[illegible]	-.4	0
5	S.L.	127.0	[illegible]	-2.6	0
4	S.L.	108.8	[illegible]	-2.2	.2
3	S.L.	105.0	[illegible]	-1.0	.2
2	S.L.	93.0	[illegible]	-1.0	.3
1	[illegible]	48.0		+1.0	0
ALLOWED		± [illegible]			

DATE: 11-25-64

CHECKER: [illegible]

SYSTEM ACCURACY TESTS

NET

TMC 303
SERIAL NO 1

LIST	ALTITUDE	NET THRUST	CALCULATED NET THRUST	SCALE ERROR	FRICTION ERROR
1	S.L.	49.0	47	+1.0	X
2	S.L.	92.7	94	-1.3	X
3	S.L	104.8	106	-1.2	X
4	S.L.	108.6	111	-2.4	X
5	S.L.	93.0	96	-3.0	X
6	25,000	19.0	19	0	X
7	25,000	49.5	48	+1.5	X
8	25,000	57.0	56	+1.0	X
9	45,000	9.0	9.4	-.4	X
10	45,000	23.0	23	0	X
11	45,000	25.2	25	+.2	X
11	45,000	25.0	25	0	.2
10	45,000	23.0	23	0	0
9	45,000	9.0	9.4	-.4	.0
8	25,000	56.5	56	+.5	.5
7	25,000	49.0	48	+1.0	.5
6	25,000	19.0	19	0	0
5	S.L.	92.5	96	-3.5	.5
4	S.L.	108.8	111	-2.2	.2
3	S.L.	105.0	106	-1.0	.2
2	S.L.	93.0	94	-1.0	.3
1	S.L.	48.0	47	+1.0	0
	ALLOWED	±4% OR ±1.0			

DATE: 11-25-64

CHECKED:

SYSTEM ACCURACY TESTS

[illegible] TME - 302
SERIAL NO 1

LIST	ALTITUDE	% THRUST	CALCULATED / THRUST	SCALE ERROR	FRICTION ERROR
1	S.L.	32·0	31.5	+ ·5	x
2	S.L.	62·5	62.5	0	x
3	S.L.	70·5	70.5	0	x
4	S.L.	73·5	74.0	- ·5	x
5	S.L.	62·0	64.0	-2·0	x
6	25,000	34·0	34	0	x
7	25,000	87·5	[illegible]	+1·5	x
8	25,000	103·0	100.5	+ 2·5	x
9	45,000	40·0	43	- 3·0	x
10	45,000	105·5	105.5	0	x
11	45,000	114·5	114.5	0	x
11	45,000	114·5	114.5	0	0
10	45,000	105·5	105.5	0	0
9	45,000	40·0	43	-3·0	0
8	25,000	103·0	100.5	- 2·5	0
7	25,000	87·0	86	+1·0	·5
6	25,000	34·0	34	0	0
5	S.L.	62·0	64.0	-2·0	0
4	S.L.	73·5	74.0	- ·5	0
3	S.L.	70·5	70.5	0	0
2	S.L.	62·5	62.5	0	0
1	S.L.	32·0	31.5	+ ·5	0
	ALLOWED	±4			

DATE: 11-25-64

CHECKER: [illegible]

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA SO. BEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST TMT - 303 SYSTEM

TEST	CHECK O.K.	COMMENTS
1. Physical Examination	✓	
2. Scale and Friction Error	✓	
3. Position Error	—	NOT APPLICABLE
4. Response Time	✓	
5. Sensitivity	✓	

Test Specification - Per Proposal P62N05-3 at Room Temperature

Part No. 200297-1 Serial No. 2

Date 25 NOV 1964

Tester R. W. Thorpe

Accept ✓ Reject

Inspector [illegible]

PLATE No 1264

TEST RECORD AND NET THRUST SYSTEM

REF: PLATE No. 1155

TESTER: [illegible]

(Based on: A_7=464, A_2=685, $\frac{100\%F_n}{\delta}$=15000 MOD. No: 303 SER. No: 2 DATE: 11/25/64

SIMULATOR DIALS

TEST	P_{t7} "H_g -.22	$P_{\Delta 7}$ "H_g 30.5	P_a "H_g 30.5	P_{t2} "H_g 61	$P_{\Delta 2}$ "H_g 16.3	DES. F_g 100's	IND. F_g 100's	IND. F_g MV	DES. F_n 100's	IND. F_n 100's	MEAS. F_n MV	DES. F_n/δ %	IND. F_n/δ %	OK
1	3.85	2.095	9.81	4.905	0	47	47.5/48.0	312/823	47	47.5/48.0	812/822	31.5	31.5/31.5	
2	5.54	3.47	9.81	4.905	0	94	92.5/93.0	1600/1640	94	92.5/93.0	1600/1640	62.5	62.5/62.5	
3	6.06	3.[illegible]	9.81	4.905	0	106	104/104.5	1835/1840	106	104/104.5	1835/[illegible]	70.5	70.5/70.5	
4	6.155	3.741	9.81	4.905	0	111	108.5/108.5	1920/1920	111	108.5/108.5	1920/1920	74.0	73.0/73.0	
5	6.85	4.17	9.81	5.818	3.05	129.6	127/127	2270/2270	96	93.5/93.4	1635/1630	64.0	63.0/63.0	
6	2.04	1.308	3.64	2.525	.644	35.4	35.0/34.9	606/604	19	19.0/19.1	333/332	34.	34.0/34.5	
7	3.269	2.226	3.64	2.525	1.344	71	70.0/70.5	1235/1240	48	48.5/48.5	837/837	86.	88.0/88.5	
8	3.584	2.413	3.64	2.525	1.47	80	78.8/78.5	1380/1375	56	57.5/57.2	1010/1002	100.5	102/103	
9	.891	.5557	1.428	.990	.276	16	16.0/16.0	275/275	9.4	9.5/9.2	168/163	43.	43.5/42.5	
10	1.419	1.023	1.428	.990	.601	32	32.2/32.2	565/565	23	23.5/23.5	405/405	105.5	107/106.5	
11.	1.515	1.041	1.428	.990	.632	34.6	34.5/34.5	600/600	25	25.0/25.5	445/442	114.5	116/115.5	
			Allowed:				±3% or ±1.0			±4% or ±1.0			±4%	

ACCEPTED ✓

REJECTED ____

PLATE 1223

SYSTEM ACCURACY TESTS

TME 303

SCANNER NO 2

LIST	ALTITUDE	[illegible]	CALCULATED [illegible]	SCALE ERROR	FRICTION ERROR
1	S.L.	[illegible]	[illegible]	+·5	X
2	S.L.	92·5	[illegible]	−1·5	X
3	S.L.	104·0	[illegible]	−2·0	X
4	S.L.	108·5	[illegible]	−2·5	X
5	S.L.	127·0	[illegible]	−2·6	X
6	25,000	35·0	[illegible]	−·4	X
7	[illegible]	70·0	[illegible]	−1·0	X
8	25,000	78·8	[illegible]	−1·2	X
9	45,000	16·0	[illegible]	0	X
10	45,000	32·2	32	+·2	X
11	45,000	34·5	[illegible]	−·1	X
11	45,000	34·5	[illegible]	−·1	0
10	45,000	32·2	32	+·2	0
9	45,000	16·0	[illegible]	0	0
8	25,000	78·5	[illegible]	−1·5	·3
7	25,000	70·5	[illegible]	−·5	·5
6	25,000	34·9	[illegible]	−·5	·1
5	S.L.	127	126.6	−2·6	0
4	S.L.	108·5	111	−2·5	0
3	S.L.	104·5	[illegible]	−1·5	·5
2	S.L.	93·0	[illegible]	−1·0	·5
1	[illegible]	48·0	[illegible]	+1·0	·5
	ALLOWED	[illegible]			

DATE: 11-25-64

CHECKER: [signature]

SYSTEM ACCURACY TESTS

NET THE FOR

S... NO 5

LIST	ALTITUDE	NET THRUST	CALCULATED NET THRUST	SCALE ERROR	FRICTION ERROR
1	S.L.	47.5	47	+.5	X
2	S.L.	92.5	94	-1.5	X
3	S.L	104	106	-2.0	X
4	S.L.	108.5	111	-2.5	X
5	S.L.	93.5	96	-2.5	X
6	25,000	19.0	19	0	X
7	25,000	49.5	48	+1.5	X
8	25,000	57.5	56	+1.5	X
9	45,000	9.5	9.4	+.1	X
10	45,000	23.5	23	+.5	X
11	45,000	25.7	25	+.8	X
11	45,000	25.5	25	+.5	.3
10	45,000	23.5	23	+.5	0
9	45,000	9.2	9.4	-.2	.3
8	25,000	57.2	56	+1.2	.3
7	25,000	49.5	48	+1.5	0
6	25,000	19.4	19	+.4	.4
5	S.L.	93.4	96	-2.6	.1
4	S.L.	108.5	111	-2.5	0
3	S.L.	104.5	106	-1.5	.5
2	S.L.	93.0	94	-1.0	.5
1	S.L.	47.0	47	+1.0	.5
	ALLOWED	±4? [illegible]			

DATE: 11-25-64

CHECKED: [illegible]

SYSTEM ACCURACY TESTS

ALTOS — TME - 308

SERIAL NO 2

LIST	ALTITUDE	% [illegible]	CALCULATED % [illegible]	SCALE ERROR	FRICTION ERROR
1	S.L.	31.5	31.5	0	X
2	S.L.	62.5	62.5	0	X
3	S.L	70.5	70.5	0	X
4	S.L.	73.0	74.0	-1.0	X
5	S.L.	63.0	64.0	-1.0	X
6	25,000	34.0	34	0	X
7	25,000	88.0	86	+2.0	X
8	25,000	103.0	100.5	+2.5	X
9	45,000	43.5	43	+.5	X
10	45,000	107.0	105.5	+1.5	X
11	45,000	116.0	114.5	+1.5	X
11	45,000	115.5	114.5	+1.0	.5
10	45,000	106.5	105.5	+1.0	.5
9	45,000	43.5	43	+.5	.0
8	25,000	103.0	100.5	+2.5	0
7	25,000	87.5	86	+1.5	.5
6	25,000	34.5	34	+.5	.5
5	S.L.	63.0	64.0	-1.0	0
4	S.L.	73.0	74.0	-1.0	0
3	S.L.	70.5	70.5	0	0
2	S.L.	62.5	62.5	0	0
1	S.L.	31.5	31.5	0	0
	ALLOWED	±4			

DATE: 11-25-64

CHECKER: [signature]

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA SO. BEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

3.0 REPORT OF ENVIRONMENTAL TESTS AND LIFE TESTS ON "UNIVERSAL TYPE NET THRUST COMPUTER" MODEL TME-303 SERIAL NO. 3, SYSTEMS NO. 200297-1A

3.1 Temperature and Temperature/Altitude Tests

3.1.1 Temperature and Temperature/Altitude Tests were conducted in accordance with MIL-E-5272C as follows:

(a) Low Temperature - Procedure I @ -54°C

(b) Temperature/Altitude - Procedure I

(c) High Temperature - Procedure II @ +100°C

3.1.2 Model No. TME-303 Serial No. 3

3.1.3 Equipment Used

(a) Bowser Climatic Chamber Model 36-100 VH Stock No. 10278

3.1.4 Procedures - The range of tests and procedures followed were as specified in MIL-E-5272C. At each environment the specimen was functionally checked for accuracy.

The environmental charts and the records of the checks taken at each step of the environmental tests are attached herewith.

3.1.5 Date of Temperature and Temperature/Altitude Tests - February 3, 1965 to February 9, 1965.

3.2 Vibration Tests

3.2.1 Vibration Tests were completed in accordance with MIL-E-5009A procedure 4-3-3-4-1 except that the duration of vibration was limited to four hours in each of three planes instead of 12 hours in each of three planes.

3.2.2 Model No. TME-303 Serial No. 3

3.2.3 Equipment used

(a) Calidyne Shaker Model 177A Serial No. 50

(b) Accelerometer Nos.

(1) R-272

(2) BA-44

(3) R-273

3.2.4 Range of Tests

(a) Four hours in each of three planes

(b) Sweep on Calidyne - 5 to 150 cps

(c) Acceleration - 5 Gs

(d) Sweep Rate - 5 to 150 to 5 = 30 mins.

3.2.5 Accelerometer Calibration

(a) R-272 - 190-35MV/5Gs

(b) BA-44 - 164-5MV/5Gs

(c) R-273 - 190-35MV/5Gs

3.2.6 Procedures - Specimens were vibrated in each of three planes from 5 - 150 - 5 cps. There were no resonances at any of the above frequencies, therefore, the specimens were vibrated for four hours in each plane, as shown in the attached drawings, at 17.5 cps. A functional check was made during the vibrating cycle in plane 3.

3.2.7 Dates - Vibration started on February 9, 1965, and completed on February 12, 1965.

3.2.8 Mounting of the computers during the Vibration Testing is shown in Drawings, Figures 1, 2 and 3, for each plane of vibration.

3.3 Impact Tests

3.3.1 Specimens were subjected to impact shocks in accordance with MIL-F-5009A paragraph 4-3-3-3-7.

3.3.2 Model No. TME-303 Serial 3.

3.3.3 Equipment used

(a) Accelerometer Serial No. 2550

(b) Avco Shock Machine Model SM030

(c) Shock Pad 901451-28

(d) Added table weight - 200 lbs

3.3.4 Equipment Settings

(a) Accelerator Sensitivity in Peak MV/Peak g - 41.5

(b) Through Cathode follower MV/ Peak g - 39.01

(c) Scope Sweep time 2 MS per CM

(d) Scope Gain - 500 MV per CM

(e) Air Pressure - 50 PSI

(f) Drop Height - 12 in

(g) Air Stop build up - 0

(h) Peak "G"s - 30

(i) Duration - 12 MS

3.3.5 Procedures - Impact equipment was set to read 12 MS. Specimens were then subjected to 2 shocks in each of six directions, total 12 shocks of 30 g's with a duration of 12MS. Specimens were then functionally checked and the readings recorded in attached Plate 1223.

Date of Impact Tests - February 13, 1965.

3.4 Life Testing

3.4.1 The specimen was subjected to a minimum of 500 hrs Life Testing to prove compliance with the predicted mean time between failure time specified in Proposal P62N05-3.

3.4.2 Model No. TME-303 Serial No. 3

3.4.3 Test Procedures - The complete system was operated for 21 hours per day in the following cycle

(a) Operational every 4 hours

(b) Non-operational periods of ½ hour after each operational period of four hours.

A time switch activated the vacuum pump to place regulated negative pressure on the transducers to simulate altitude. The timer cycled every 14 minutes during the operating period placing the following pressures on the system

(a) Sea level pressure - 12 mins

(b) 45,000 ft pressure - 2 mins

3.4.4 Test Periods

The Life testing commenced at 9:00 AM on 20 January 1965 and the system operated continually until 5:00 PM on 2 February 1965.

Life testing again commenced at 8:00 PM on the 16th of February and the system operated continuously until 4:00 PM on 27 February 1965.

3.4.5 Total Test Time - The System operated for a period of 519 hours plus the time when the computers and indicators were

operating during environmental testing, which added an extra 17 hours.

Total operating time was therefore

536 hours

The break in Life testing between 2 February 1965 and 16 February 1965 was necessary in order to perform the Environmental Testing as the Environmental Test Equipment was only available during this period.

3.4.6 Failures - There were no failures during Life or Environmental testing.

3.4.7 Data Recording - The accuracy of the equipment was checked prior to Life Testing and then immediately after Life Testing. The test records of the checks are attached herewith on Plates 1223.

APPENDIX III

This appendix consists of the following drawings which are included herewith and constitute part of this Test Report.

Quantity	Drawing	Title
1		ITT Federal Laboratories, Test Laboratory Procedure Report
1	P1264	Individual Test Transmitter Serial No. 9
1		System Accuracy Tests Transmitter Serial No. 9
1	P1264	Individual Test Transmitter Serial No. 10
1		System Accuracy Tests Transmitter Serial No. 10
1	P1264	Individual Test Transmitter Serial No. 6
1		System Accuracy Tests Transmitter Serial No. 6
1	P1264	Individual Test Transmitter Serial No. 1
1		System Accuracy Tests Transmitter Serial No. 1
1	P1264	Individual Test Transmitter Serial No. 2
1		System Accuracy Tests Transmitter Serial No. 2
1	P1264	Individual Test TME-303 Ram Drag Computer Serial No. 3
1	P1264	Individual Test TME-303 Gross Thrust Computer Serial No. 3
1	P1263	Individual Test TME-303 Indicator Serial No. 3
1		Individual Test - TME-303 Probe Assembly Serial No. 3
1	P1264	Individual Test TME-303 System Serial No. 3
1		System Accuracy Tests Gross
1		System Accuracy Tests Net
1		System Accuracy Tests Percent
1	1223	Test Record A3D Net Thrust System Serial No. 3 Low Temperature
1		Low Temperature Test Chart

APPENDIX III (cont.)

Quantity	Drawing	Title
1	P1223	Test Record A3D Net Thrust System Serial No. 3 Low Temperature
3		Temperature/Altitude Chart
12	P1223	Test Record A3D Net Thrust System Serial No. 3 Temperature/Altitude
2		High Temperature Test Chart
2	P1223	Test Record A3D Net Thrust System Serial No. 3 High Temperature
1	Fig. 1	Vibration Test Mounting Plane 1
1	Fig. 2	Vibration Test Mounting Plane 2
1	Fig. 3	Vibration Test Mounting Plane 3
1	P1223	Test Record A3D Net Thrust System Serial No. 3 Vibration Test
1	P1223	Test Record A3D Net Thrust System Serial No. 3 Impact Test
2	P1223	Test Record A3D Net Thrust System Serial No. 3 Life Testing

ITT Federal Laboratories
Ft. Wayne, Indiana

Test Laboratory
Procedure Report

No. 1000 Date: 2-22-65

1.0 Description

1.1 One (1) computer (Gross Thrust) Serial number 1J1 and one (1) computer (Ram Drag) Serial number 2J1 designed and developed by Telectro-Mek, Inc. were submitted for environmental tests.

1.2 The dimensions of the computers are 5-1/2 x 5-3/16 x 2-1/4 inches and weigh approximately 10 pounds each.

2.0 Procedure

2.1 The two computers were subjected to the following environmental tests in accordance with the applicable specifications, *with exceptions as noted herein. Both units were tested concurrently through each environment.

2.1.1 Low Temperature Operation
MIL-E-5272C. Procedure I @ -54 degrees C.

2.1.2 Temperature-Altitude
MIL-E-5272C. Procedure I

2.1.3 High Temperature Operation
MIL-E-5272C. Procedure II @ +100 degrees C.

2.1.4 Vibration
MIL-E-5009A Procedure 4.3.3.4.1
* Duration of vibration was limited to four hours in each of three axes instead of 12 hours in each of three axes.

2.1.5 Impact
MIL-E-5009A Paragraph 4.3.3.3.7
Two shocks in each of six directions, total 12 shocks of 30 g's with a duration of not less than 10 milliseconds.

3.0 Results

3.1 Test environments were conducted in accordance with applicable specifications at all times, except as noted in paragraph 2.1.4.

3.2 Operational tests of the computers were conducted by Telectro-Mek, Inc. personnel.

3.3 At the conclusion of environmental tests the computers were returned to Telectro-Mek, Inc. for further evaluation.

4.0 Notes

4.1 Tests were completed February 15, 1965.

4.2 The following equipment was used to perform the environmental tests.

4.2.1 Bowser Climatic Chamber Model 36-100VH Stock No. 10278
4.2.2 Thermo Electric Bridge Model 80200 Stock No. 10757
4.2.3 Calidyne Shaker Model 177A Stock No. 9549
4.2.4 Avco Shock Machine Model SM-030 Serial No. 1003
4.2.5 Endevco Accelerometers Model Serial No. BA-44, R-272, R-273
4.2.6 Endevco Cathode Follower Model 2668, Serial No. 8541, 8547, 474
4.2.7 Endevco Power Supply Model 2622 Stock No. 9052
4.2.8 Tektronix Oscilloscope Model 545 Stock No. 6598
4.2.9 Polaroid Oscilloscope Camera Stock No. 7147
4.2.10 Dumont Oscilloscopes Model 304, Stock No. 4791, 3606, 5029
4.2.11 H-P V.T.V.M. Model 400H Stock No. 9559

4.3 Tests conducted by Emmett Stark and Roy Moore.
Emmett Stark Roy Moore

4.4 Test approved by D. L. Carpenter.
D. L. Carpenter, Manager Reliability

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA   SO. BEND, INDIANA   LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST TRANSMITTER

TEST	CHECK O.K.	COMMENTS
1. Physical Examination	✓	
2. Scale and Friction Error	✓	
3. Position Error	✓	
4. Response Time	✓	
5. Sensitivity	✓	

Test Specification - Per Proposal P62N05-3 at Room Temperature

Part No. 300015- 2   Serial No. 9

Date 1-15-65

Tester RSchonp

Accept ✓   Reject

Inspector Leslie Hullo

PLATE No 1264

SYSTEM [illegible] TESTS

TRANSMITTER 300[illegible] -2   [illegible] 9

TEST	ALTITUDE	[illegible] HG	[illegible]CULATED HG	SCALE ERROR	[illegible] ERROR
1	29.04 HG	95.94	96	-0.06	x
2	29.04 "	59.66	60	-0.34	x
3	29.04 "	23.94	24	-0.06	x
3	29.04 "	24.06	24	+0.06	0.12
2	29.04 "	60.10	60	+0.10	0.44
1	29.04 "	96.28	96	+0.28	0.34.

[illegible] 25 ± 5°.

DATE: 1-15 65

CHECKED [illegible]

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA SO. BEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST TRANSMITTER

TEST	CHECK O.K.	COMMENTS
1. Physical Examination	✓	
2. Scale and Friction Error	✓	
3. Position Error	✓	
4. Response Time	✓	
5. Sensitivity	✓	

Test Specification - Per Proposal P62N05-3 at Room Temperature

Part No. 300015-4 Serial No. 10

Date 1-15-65

Tester [signature]

Accept ✓ Reject

Inspector [signature]

PLATE NO 1264

SYSTEM ACCURACY TESTS

TRANSMITTER 300[illegible] - 4 [illegible] 10

TEST	ALTITUDE	MEAN [illegible] HG	[illegible]	SCALE ERROR	[illegible]
1	29·48 HG	24·04	24	+0·04	x
2	29·48	14·93	15	-0·07	x
3	29 4·8	5·84	6	-0·16	x
3	29·48	5·85	6	-0·15	0·01
2	29·48	14·99	15	-0·01	0·06
1	29·48	24·01	24	+0·01	0·03

[illegible] 1·15 65

CHECKED [illegible]

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA SO. BEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST TRANSMITTER

TEST	CHECK O.K.	COMMENTS
1. Physical Examination	✓	
2. Scale and Friction Error	✓	
3. Position Error	✓	
4. Response Time	✓	
5. Sensitivity	✓	

Test Specification - Per Proposal P62N05-3 at Room Temperature

Part No. 300015-5 Serial No. 6

Date 1-15-65

Tester RSshoup

Accept ✓ Reject

Inspector [signature]

PARTS NO 1264

SKIN TEMP TESTS

TRANSMITTER 3000 S/N -5 6

TEST	ALTITUDE	[illegible]			
1	29.27 HG	48.00	48	0	X
2	29.27	23.89	24	-0.11	X
3	29.27	11.91	12	-0.09	X
3.	29.27	11.95	12	-0.05	0.04
2	29.27	23.83	24	-0.17	0.06
1	29.27	48.0	48	0	0

DATE: 1.15.65

CHECKED: [signature]

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA SO. LEND, INDIANA LONG ISLAND CITY, N. Y.
2700 Nuttman Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST TRANSMITTER.

TEST	CHECK O.K.	COMMENTS
1. Physical Examination	✓	
2. Scale and Friction Error	✓	
3. Position Error	✓	
4. Response Time	✓	
5. Sensitivity	✓	

Test Specification - Per Proposal P62N05-3 at Room Temperature

Part No. 300015 - 6 Serial No. 1

Date 1-15-65

Tester [signature]

Accept ✓ Reject

Inspector [signature]

PLATE NO 1264

SYSTEM ACCURACY TESTS

TRANSMITTER 3000.5 – 6 SCALE 1

TEST	ALTITUDE	MERCURY IN. HG.	CALCULATED IN. HG	SCALE ERROR IN. HG	FRICTION ERROR
1	29.48 HG	24.00	24	0	X
2	29.48 "	15.05	15	+0.05	X
3	29.48 "	5.93	6	−0.07	X
3	29.48 "	6.05	6	+0.05	0.12
2	29.48 "	15.16	15	+0.16	0.11
1	29.48 "	24.00	24	0	0

ADJUSTED 25 ± 5°C

DATE: 1.15.65 CHECKED: [illegible]

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA SO. BEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST TRANSMITTER

TEST	CHECK O.K.	COMMENTS
1. Physical Examination	✓	
2. Scale and Friction Error	✓	
3. Position Error	✓	
4. Response Time	✓	
5. Sensitivity	✓	

Test Specification - Per Proposal P62NOS-3 at Room Temperature

Part No. 300015-8 Serial No. 2

Date 1-15-65

Tester Lashup

Accept ✓ Reject

Inspector [signature]

PLATE NO 1264

SYSTEM ACCURACY TESTS

TRANSMITTER 3000:5 – 8 SERIAL 2

TEST	ALTITUDE	MEASURED HG	CALCULATED HG	SCALE ERROR	SYSTEM ERROR
1	29.04 HG	12.77	12.8	-0.03	x
2	29.04 "	6.26	6.4	-0.14	x
3	29.04 "	3.08	3.2	-0.12	x
3	29.04 "	3.10	3.2	-0.10	0.02
2	29.04 "	6.27	6.4	-0.13	0.01
1	29.04 "	12.77	12.8	-0.03	0

TEMPERATURE: 25 ± 5°C

DATE: 1-15-65

CHECKED: [illegible]

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA SO. BEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST [illegible] COMPUTER

TEST	CHECK O.K.	COMMENTS
1. Physical Examination	✓	
2. Scale and Friction Error	✓	
3. Position Error	✓	
4. Response Time	✓	
5. Sensitivity	✓	

Test Specification - Per Proposal P62N05-3 at Room Temperature

Part No. [illegible]-G2 Serial No. 3

Date [illegible]-65

Tester R.S. Thompson

Accept ✓ Reject

Inspector [illegible]

PLATE No 1264

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA SO. BEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

INDIANA TEST [illegible] COMPUTER

TEST	CHECK O.K.	COMMENTS
1. Physical Examination	✓	
2. Scale and Friction Error	✓	
3. Position Error	✓	
4. Response Time	✓	
5. Sensitivity	✓	

Test Specification - Per Proposal P62N05-3 at Room Temperature

Part No. [illegible] Serial No. 3

Date 1-15-65

Tester [illegible]

Accept ✓ Reject

Inspector [illegible]

PLATE NO 1264

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA SO. BEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST [illegible]

TEST	CHECK O.K.	COMMENTS
1. Physcial Examination	✓	
2. Scale and Friction Error	✓	
3. Position Error	✓	
4. Response Time	✓	
5. Sensitivity	✓	
6. Sealing	✓	
7. Lighting	✓	Lighting Tests to MIL-L-25467B

Test Specification - Per Proposal P62N05-3 at Room Temperature

Part No. 200294 Serial No. SERIAL 3

Date 1-19-65

Tester [illegible]

Accept ✓ Reject

Inspector [illegible]

PLATE NO 1263

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA SO. BEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST - TME-303 PROBE ASSEMBLY

I. TEST PROCEDURE

1. Seal P_t and P_s holes with masking tape
2. Apply 45 PSI pressure to side hole
3. Immerse in water to check for leaks
4. Apply 45 PSI pressure to end hole
5. Immerse in water to check for leaks

II. TEST	CHECK O.K.	COMMENTS
1. Physical Examination	✓	
2. Leakage	✓	

Part No. CV [illegible] 7 Serial No. 3

Date [illegible]

Tester [illegible]

Accept ✓ Reject

Inspector [illegible]

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA SO. BEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804

INDIVIDUAL TEST TMG - 303 SYSTEM

TEST	CHECK O.K.	COMMENTS
1. Physical Examination	✓	
2. Scale and Friction Error	✓	
3. Position Error	—	NOT APPLICABLE.
4. Response Time	✓	
5. Sensitivity	✓	

Test Specification - Per Proposal P62N05-3 at Room Temperature

Part No. 200297 - 1A Serial No. 3.

Date 1-15-65

Tester RSShoup

Accept ✓ Reject

Inspector [signature]

PLATE NO 1264

SYSTEM ACCURACY TESTS

GE [illegible]

TEST	ALTITUDE	GE[illegible] TH[illegible] x100	CALCULATED T[illegible] x 100	SCALE ERROR	FRICTION ERROR
1	S.L.	47·8	[illegible]	+ ·8	X
2	S.L.	93·0	[illegible]	− 1·0	X
3	S.L.	105·5	[illegible]	− ·5	X
4	S.L.	109·0	[illegible]	− 2·0	X
5	S.L.	127·0	[illegible]	− 2·6	X
6	25,000	35·2	[illegible]	− ·2	X
7	25,000	70·0	[illegible]	− 1·0	X
8	25,000	79·5	[illegible]	− ·5	X
9	45,000	16·1	[illegible]	+ ·1	X
10	45,000	32·0	[illegible]	0	X
11	45,000	34·5	[illegible]	− ·1	X
11	45,000	34·6	[illegible]	0	·1
10	45,000	32·2	[illegible]	+ ·2	·2
9	45,000	15·7	[illegible]	− ·3	·2
8	25,000	78·5	[illegible]	− 1·5	1·0
7	25,000	70·1	71	− ·9	·1
6	25,000	35·1	[illegible]	− ·3	·1
5	S.L.	127·5	[illegible]	− 2·1	·5
4	S.L.	108·9	111	− 2·1	·1
3	S.L.	105·0	106	− 1·0	·5
2	S.L.	93·2	[illegible]	− ·8	·2
1	[illegible]	48·[illegible]	[illegible]	+ 1·1	·3

ALLOWED: ±3% [illegible]

DATE: 1·15·65

CHECKER: [illegible]

SYSTEM ACCURACY TESTS
NET

TEST	ALTITUDE	NET THRUST	CALCULATED NET THRUST	SCALE ERROR	FRICTION ERROR
1	S.L.	48.0	47	+1.0	X
2	S.L.	92.9	94	-1.1	X
3	S.L	104.8	106	-1.2	X
4	S.L.	108.5	111	-1.5	X
5	S.L.	93.5	96	-2.5	X
6	25,000	19.0	19	0	X
7	25,000	49.6	48	+1.6	X
8	25,000	57.1	56	+1.1	X
9	45,000	9.1	9.4	-.3	X
10	45,000	23.2	23	+.2	X
11	45,000	25.3	25	+.3	X
11	45,000	25.0	25	0	.3
10	45,000	23.0	23	0	.2
9	45,000	9.0	9.4	-.4	.1
8	25,000	56.6	56	+.6	.5
7	25,000	49.1	48	+1.1	.5
6	25,000	19.0	19	0	0
5	S.L.	92.7	96	-3.3	.8
4	S.L.	108.9	111	-2.1	.6
3	S.L.	105.5	106	-.5	.7
2	S.L.	93.3	94	-.7	.4
1	S.L.	48.0	47	+1.0	0
	ALLOWED	±4% OR ±1.0			

DATE: 1-15-65

CHECKED: [illegible]

SYSTEM ACCURACY TESTS

PERCENT

TEST	ALTITUDE	% THRUST	CALCULATED % THRUST	SCALE ERROR	FRICTION ERROR
1	S.L.	32	31.5	+.5	X
2	S.L.	62.5	62.5	0	X
3	S.L	70.5	70.5	0	X
4	S.L.	73.5	74.0	-.5	X
5	S.L.	63	64.0	-1.0	X
6	25,000	34.5	34	+.5	X
7	25,000	87.5	86	+1.5	X
8	25,000	102.5	100.5	+2.0	X
9	45,000	41.5	43	-1.5	X
10	45,000	105	105.5	-.5	X
11	45,000	114	114.5	-.5	X
11	45,000	[illegible]	114.5	0	.5
10	45,000	105.5	105.5	0	.5
9	45,000	40	43	-3.0	1.5
8	25,000	103	100.5	+2.5	.5
7	25,000	87	86	+1.0	.5
6	25,000	33.5	34	-.5	1.0
5	S.L.	62.5	64.0	-1.5	.5
4	S.L.	73	74.0	-1.0	.5
3	S.L.	70	70.5	-.5	.5
2	S.L.	62.5	62.5	0	0
1	S.L.	32	31.5	+.5	0
	ALLOWED	±4			

DATE: 1-15-65

CHECKER: [illegible]

TEST RECORD A3D NET THRUST SYSTEM

REF: PLATE No. 1155

TESTER: [illegible]

(Based on: A_7=464, A_2=685, $\frac{100\%F_n}{5}$=15000 MOD. No: TME 303 SER. No: 3 DATE: 2-3-65.

SIMULATOR DATA

TEST	P_{t7} "H_g / .22	$P_{\Delta 7}$ "H_g / 30.5	P_3 "H_g / 30.5	P_{t2} "H_g / 1	$P_{\Delta 2}$ "H_g / 16.3	DES. F_g 100's	IND. F_g 100's	IND. F_g MV	DES. F_n 100's	IND. F_n 100's	MEAS. F_n MV	DES. F_n/δ %	IND. F_n/δ %	OK
1	3.85	2.[illegible]	[illegible]	4.905	0	47	48.2	840	47	48.2	840	31.5	32	
2	5.54	3.[illegible]	9.81	4.905	0	94	93.2	1635	94	93	1630	62.5	62.2	
3	6.06	3.[illegible]	9.81	4.905	0	106	105.8	1841	106	105.3	1838	70.5	71.5	
4	6.155	3.741	9.81	4.905	0	111	109.1	1905	111	109	1905	74.0	74.6	
5	6.85	4.17[illegible]	[illegible]	5.818	3.05	139.6	127	2229	96	95	1632	64.0	64.0	
6	2.04	1.3[illegible]	.84	2.525	.844	35.4	35.2	614	19	19.8	353	36.	35.8	
7	3.269	2.226	5.64	2.525	1.344	71	70.1	1213	48	49	862	86.	87	
8	3.584	2.413	5.64	2.525	1.47	80	79	1375	56	56.0	1051	100.5	104.2	
9	.891	.5557	1.423	.990	.276	16	16	284	9.4	9.0	172.	43.	41.8	
10	1.419	1.023	1.428	.990	.601	32	32.5	555	23	23.2	407	105.5	105.5	
11	1.515	1.041	1.428	.990	.632	34.6	34.7	602	25	25.6	449	114.5	116.2	
			Allowed:				±3% or ±1.0			±4% or ±1.0			±4%	

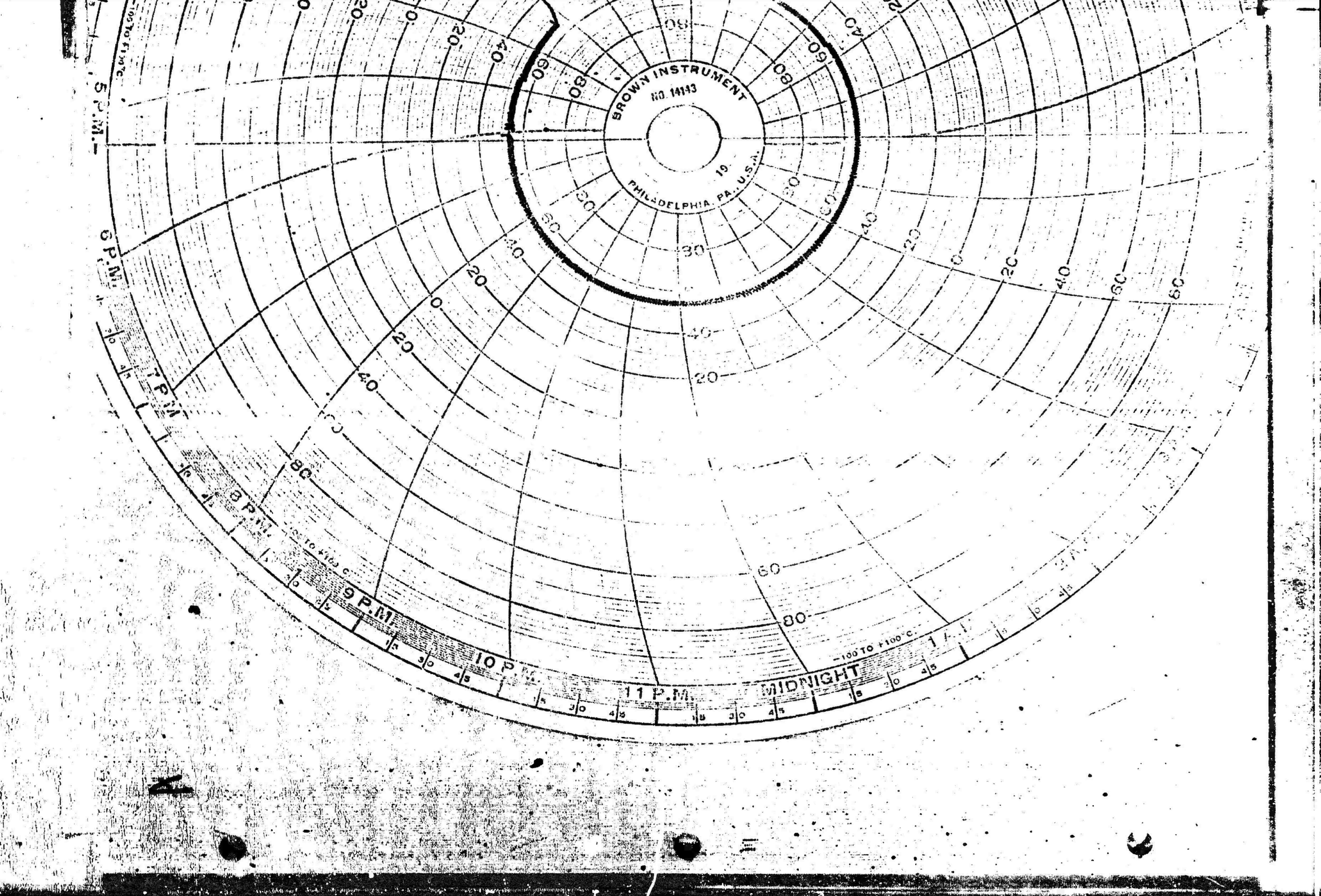
DATA TAKEN AT LOW TEMPERATURE

DATE 2/3/65 Time 7:00 P.M.

ACCEPTED ✓

REJECTED _____

PLATE 1223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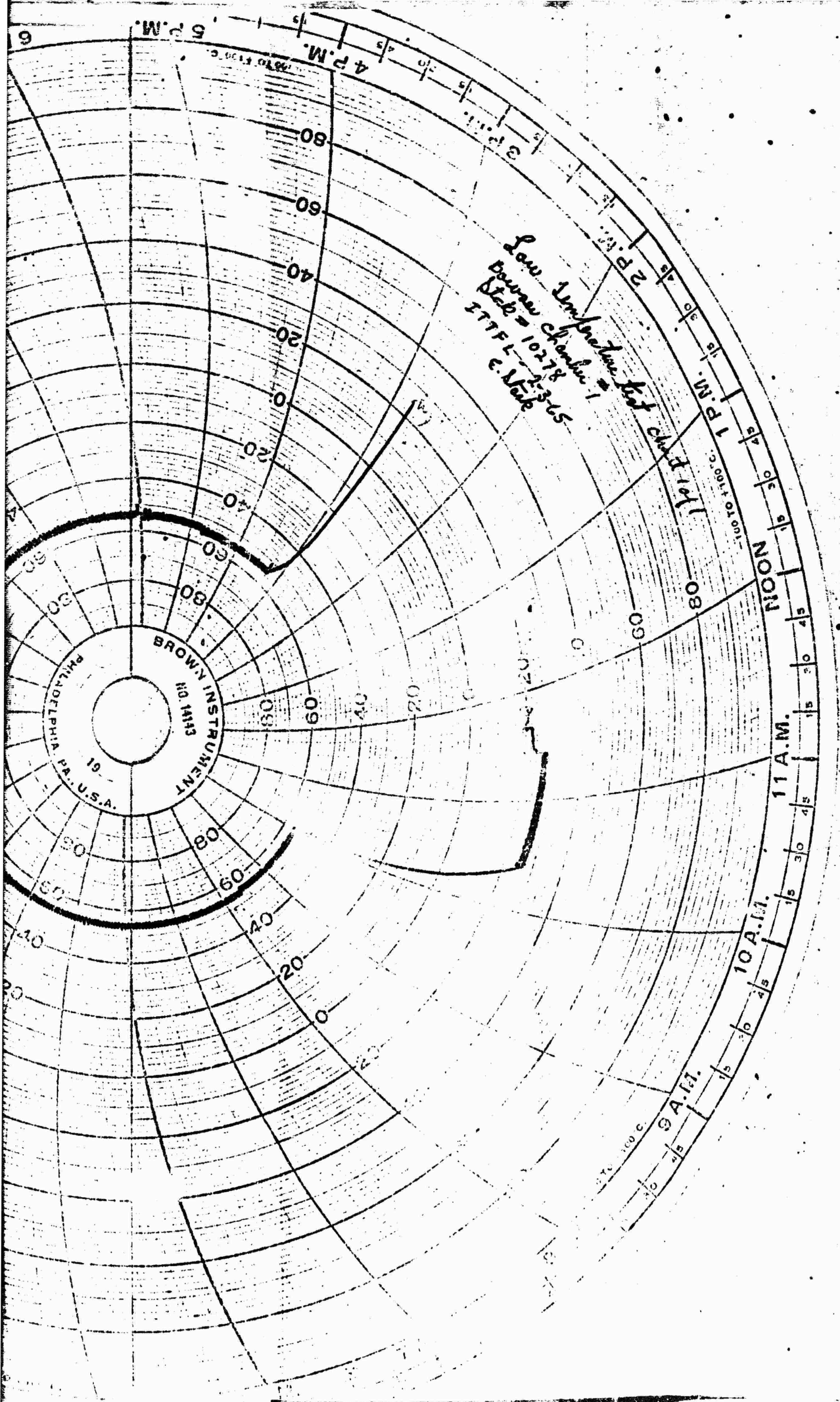
NO. 14143
PHILADELPHIA, PA., U.S.A.
5 P.M.
6 P.M.
7 P.M.
8 P.M.
9 P.M.
10 P.M.
11 P.M.
MIDNIGHT
-100 TO +100°C.

B


BROWN INSTRUMENT
NO. 14143
PHILADELPHIA PA. U.S.A.
19
-100 TO +100°C.
5 P.M.
4 P.M.
3 P.M.
2 P.M.
1 P.M.
NOON
11 A.M.
10 A.M.
9 A.M.
Low temperature test chart 1101
Downey Chamber 1
Stk = 10278
ITTFL 2-3-65
C. Stark

TEST RECORD A3D NET THRUST SYSTEM

REF: PLATE No. 1155

TESTER: Bosley

(Based on: A_7=464, A_2=685, $\frac{100\%F_n}{6}$=15000 MOD. No: TmE 303 SER. No: 3 DATE: 2·4·65

SIMULATOR DIALS

TEST	P_{t7} "H_g / .22	$P_{\Delta 7}$ "H_g / 30.5	P_a "H_g / 30.5	P_{t2} "H_g / 61	$P_{\Delta 2}$ "H_g / 16.3	DES. F_g 100's	IND. F_g 100's	IND. F_g MV	DES. F_n 100's	IND. F_n 100's	MEAS. F_n MV	DES. F_n %	IND. F_n %	OK
1	3.85	2.095	9.81	4.905	0	47	48	837	47	47.9	840	31.5	31.5	
2	5.54	3.37	9.81	4.905	0	94	93.8	1629	94	98.2	1629	62.5	62.6	
3	6.06	3.567	9.81	4.905	0	106	105.7	1840	106	105.4	1840	70.5	71.5	
4	6.155	3.741	9.81	4.905	0	111	109.6	1907	111	109.2	1909	74.0	74.6	
5	6.85	4.17	9.81	5.818	3.05	129.6	128	2230	96	95.7	1641	64.0	64	
6	2.04	1.308	3.64	2.525	.644	35.4	35.1	613	19	20.1	351	34.	35	
7	3.269	2.226	3.64	2.525	1.344	71	70.3	1213	48	49	862	86.	88	
8	3.584	2.413	3.64	2.525	1.47	80	78 8	1371	56	57	1002	100.5	104.1	
9	.891	.5557	1.428	.990	.276	16	15.9	284	9.4	9'2	172	43.	42.2	
10	1.419	1.023	1.428	.990	.601	32	32·2	558	23	23·2	407	105.5	105.1	
11	1.515	1.041	1.428	.990	.632	34.6	34·4	603	25	25·7	448	114.5	115.9	
			Allowed:				±3% or ±1.0			14% or ±1.0			14%	

DATA TAKEN AFTER LOW TEMPERATURE

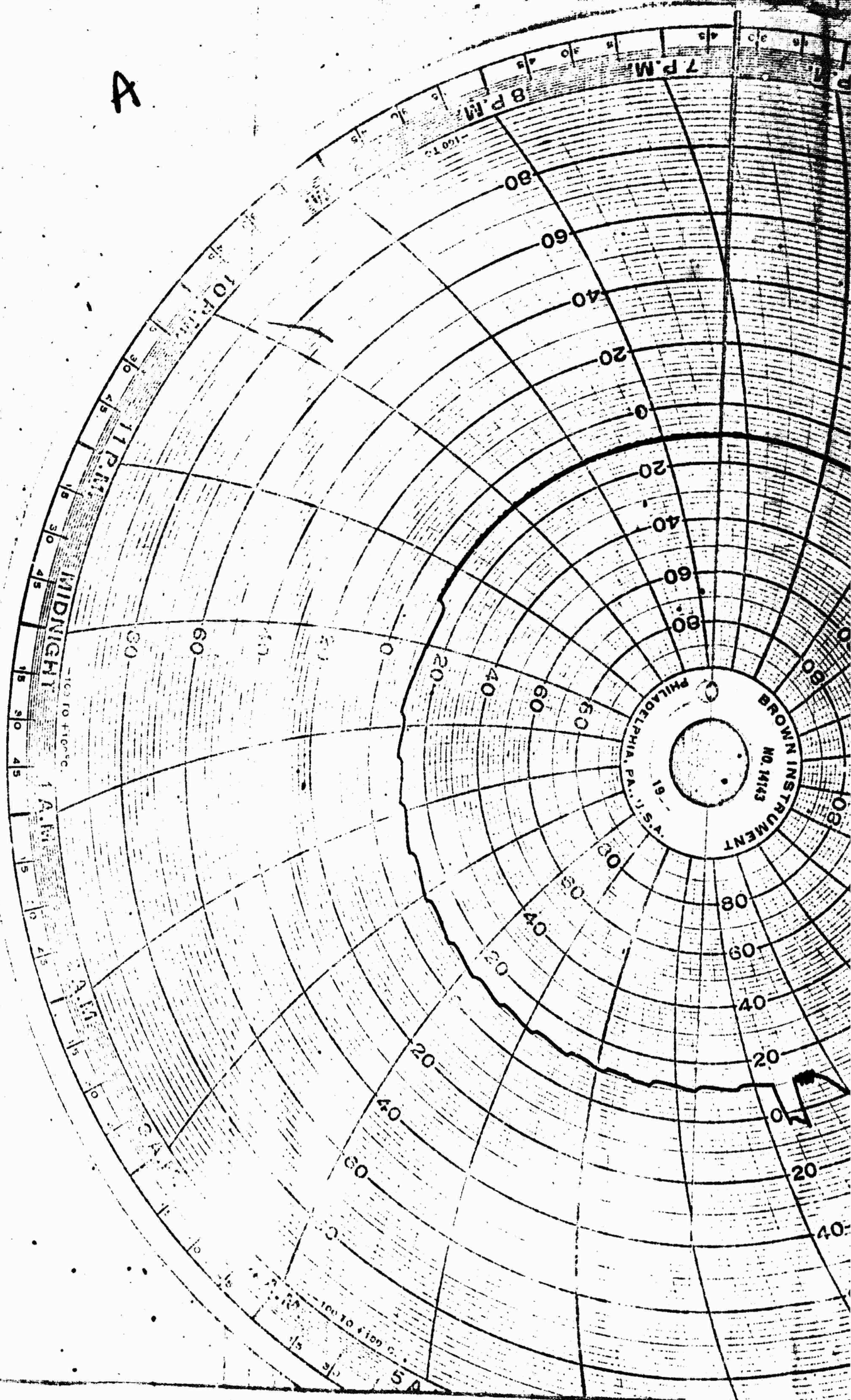
DATE 2/4/65 Time 11:00 A.M.

ACCEPTED ✓

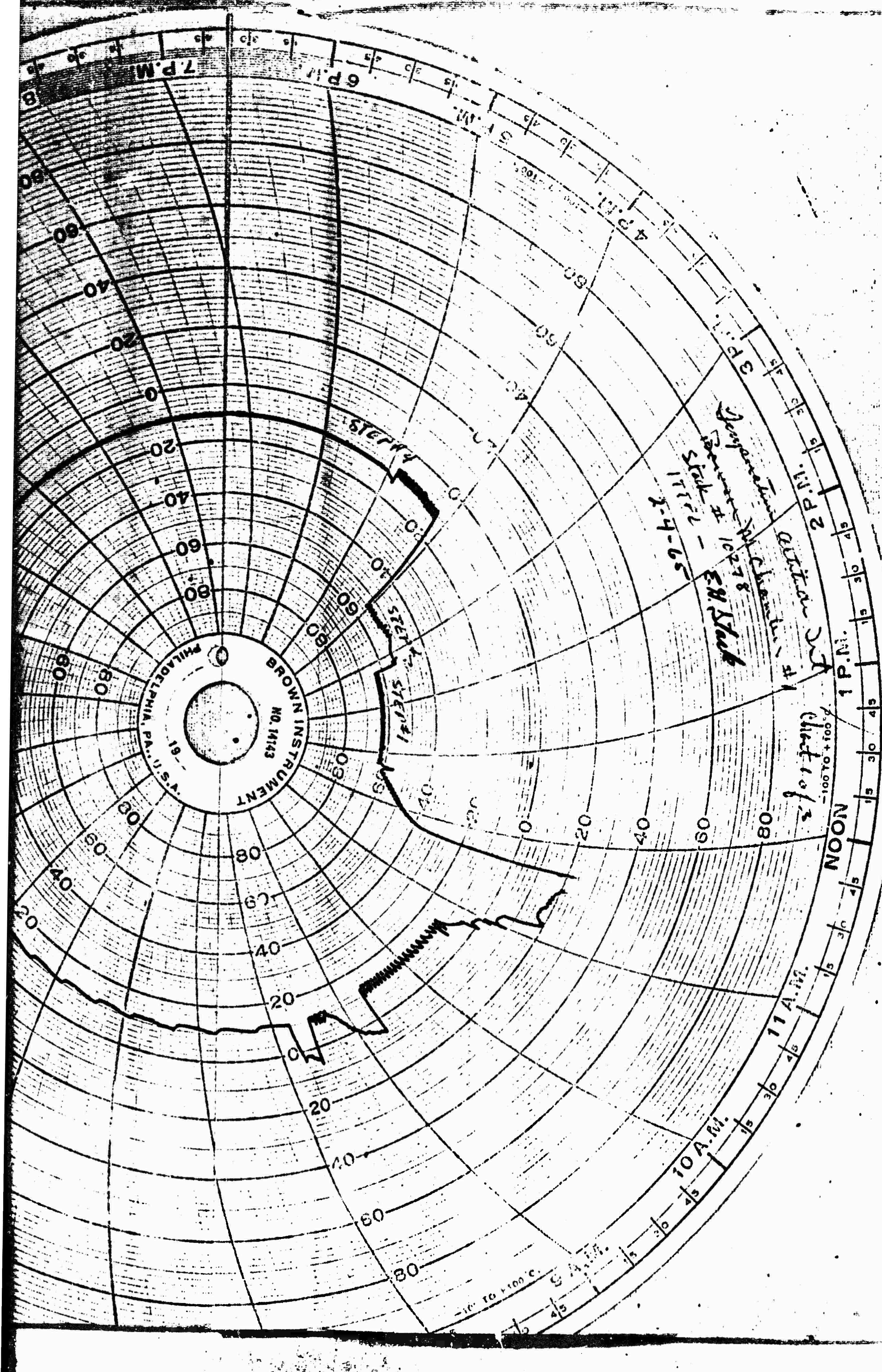
REJECTED _____

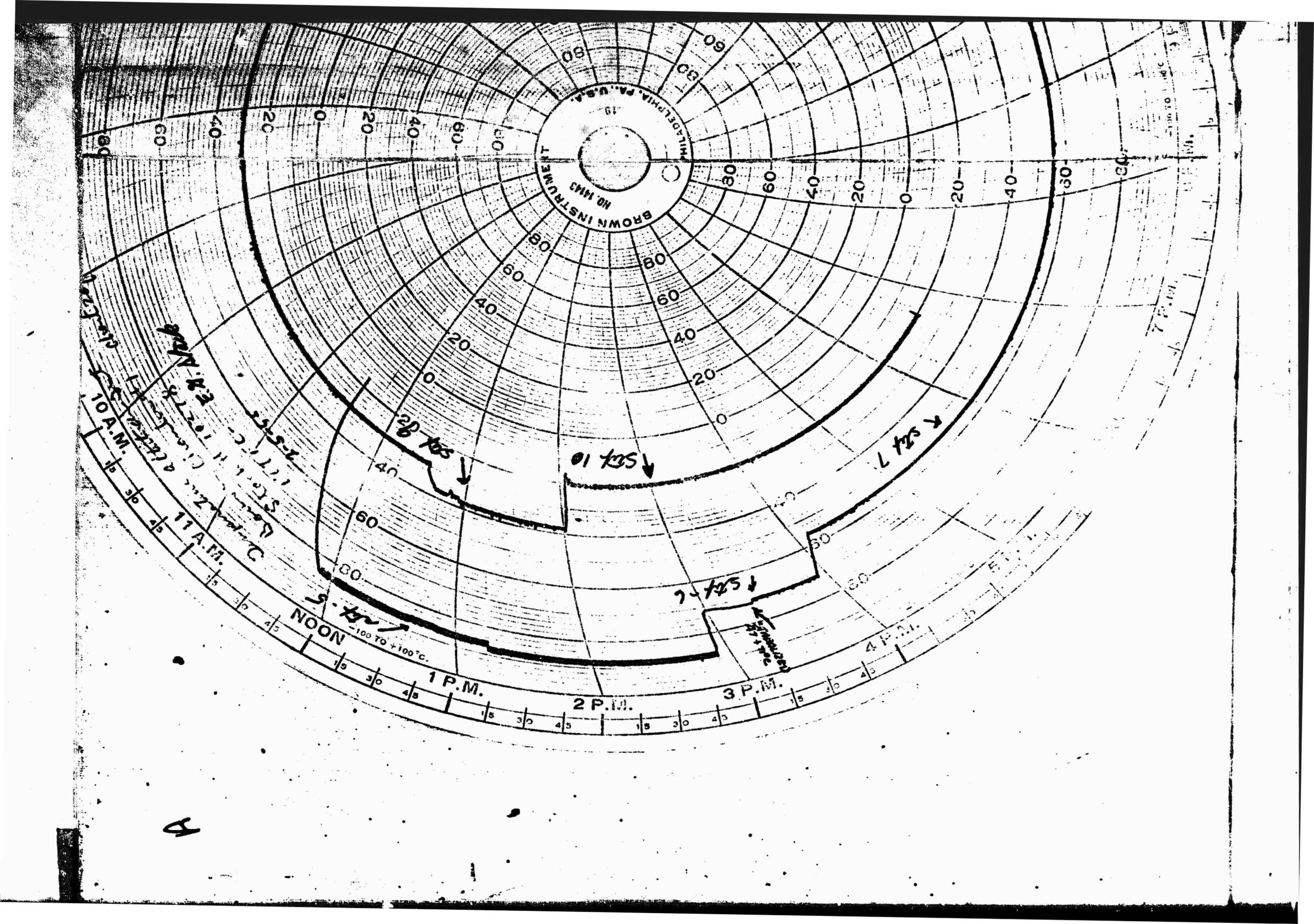
PLATE 1223

A


7 P.M.
8 P.M.
10 P.M.
11 P.M.
MIDNIGHT
1 A.M.
BROWN INSTRUMENT
NO. 14143
PHILADELPHIA, PA., U.S.A.
19

B


BROWN INSTRUMENT
NO. 14143
PHILADELPHIA, PA., U.S.A.
NOON
1 P.M.
2 P.M.
11 A.M.
10 A.M.
-100 TO +100°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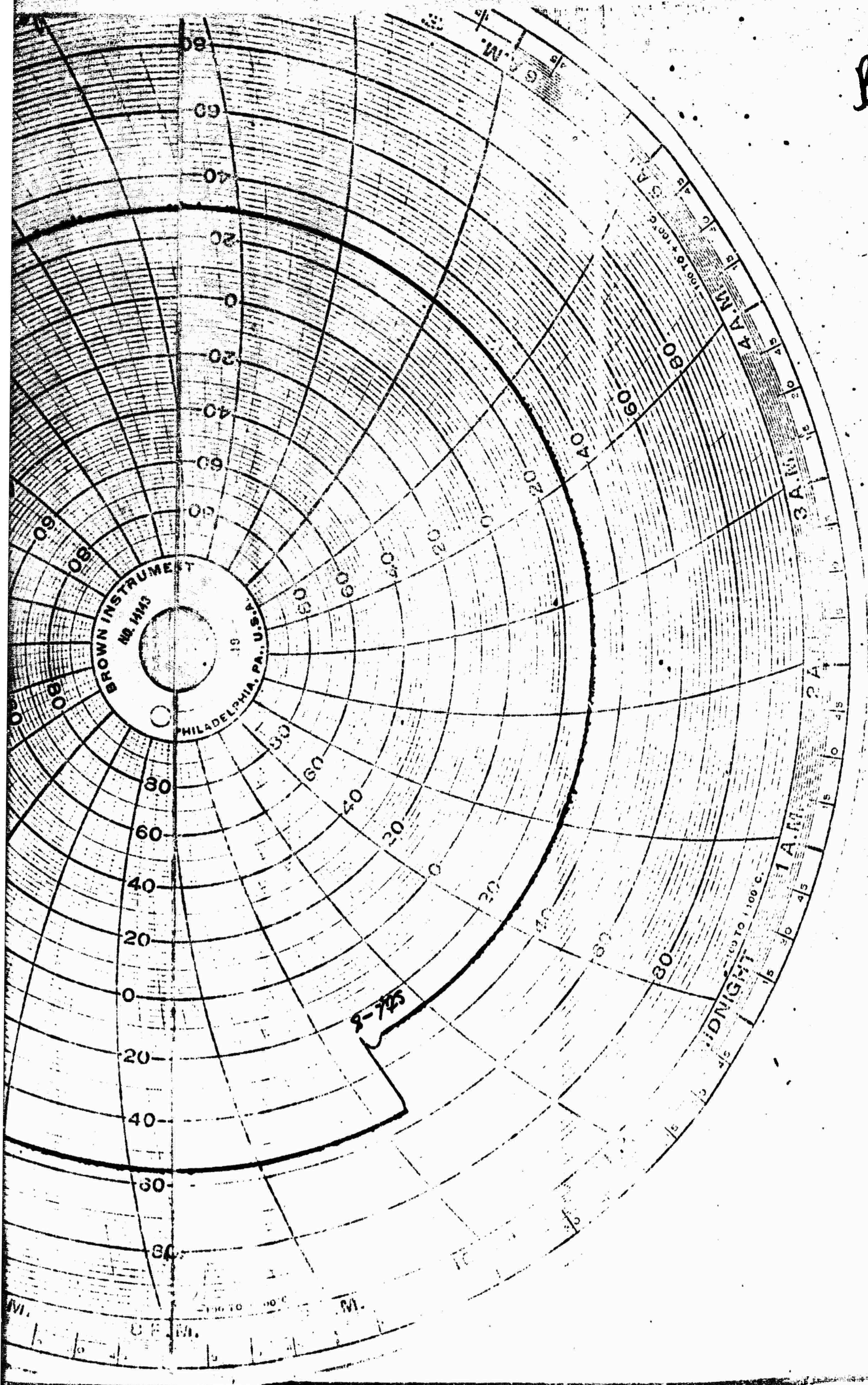
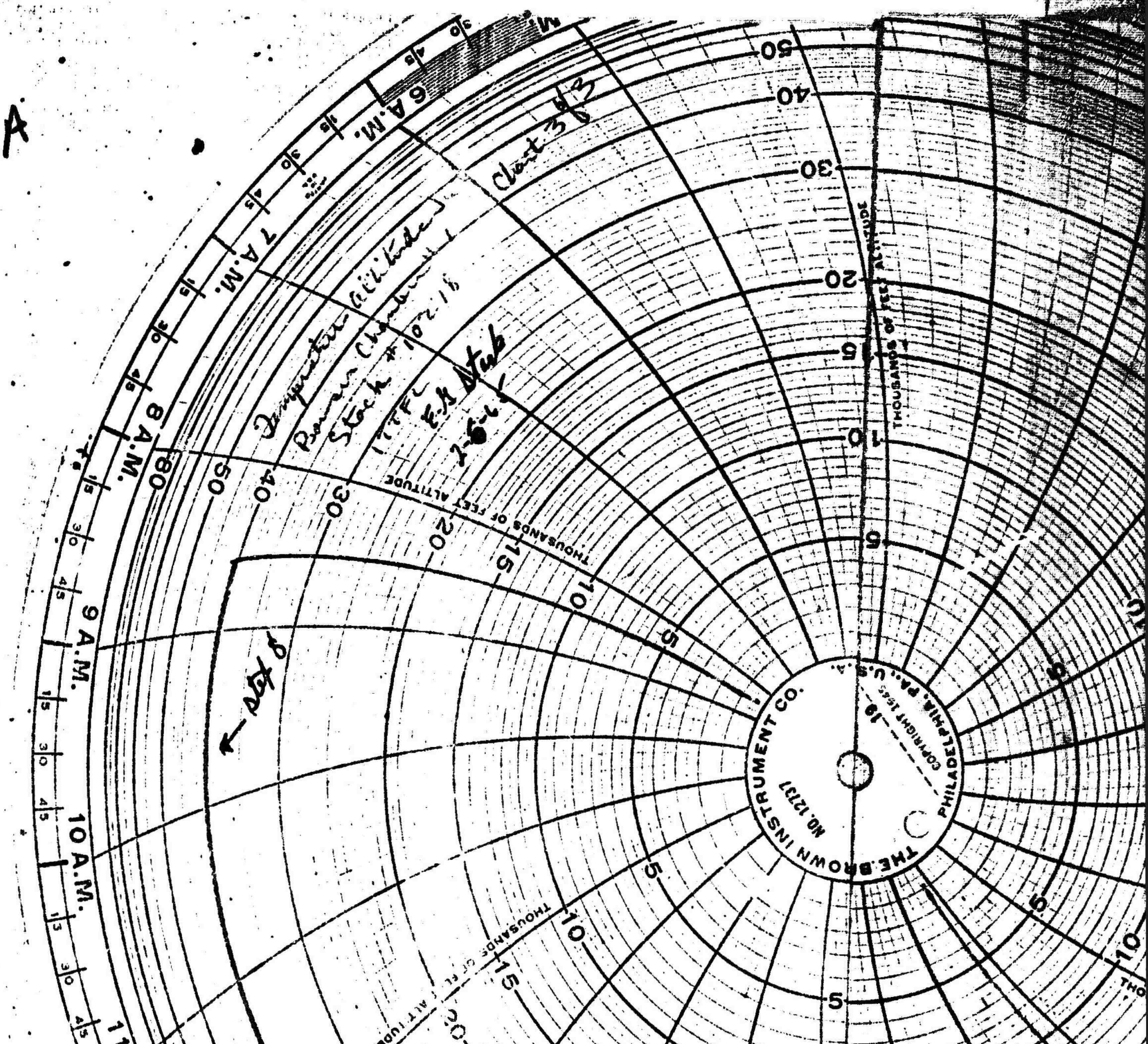
NO. 1413
PHILADELPHIA, PA., U.S.A.
NOON
1 P.M.
2 P.M.
3 P.M.
4 P.M.
10 A.M.
11 A.M.
-100 TO +100°C.

B



A



6 A.M.
7 A.M.
8 A.M.
9 A.M.
10 A.M.
11 A.M.
NOON
1 P.M.
2 P.M.
3 P.M.
4 P.M.
5 P.M.
THOUSANDS OF FEET ALTITUDE
THE BROWN INSTRUMENT CO.
PHILADELPHIA, PA., U.S.A.
COPYRIGHT 1925
NO. 12737
Chart 3 of 3
Pressure Chamber
step 8
step 9

B
2 A.M.
1 A.M.
MIDNIGHT
11 P.M.
10 P.M.
9 P.M.
8 P.M.
7 P.M.
4 P.M.
THOUSANDS OF FEET ALTITUDE
THE BROWN INSTRUMENT CO.
PHILADELPHIA, PA., U.S.A.
COPYRIGHT 1920

TEST RECORD A3D NET THRUST SYSTEM

REF: PLATE No. 1155

TESTER: CS Hays

(Based on: A_7=464, A_2=685, $\frac{100\%F_n}{\delta}$=15000 MOD. No: TME 303 SER. No: 3 DATE: 2·4·65

SIMULATOR DIALS

TEST	P_{t7} "H_g / .22	$P_{\Delta 7}$ "H_g / 30.5	P_a "H_g / 30.5	P_{t2} "H_g / 61	$P_{\Delta 2}$ "H_g / 16.3	DES. F_g 100's	IND. F_g 100's	IND. F_g MV	DES. F_n 100's	IND. F_n 100's	MEAS. F_n MV	DES. F_n/δ %	IND. F_n/δ %	OK
1	3.85	2.095	9.81	4.905	0	47	47	838	47	48	840	31.5	32	
2	5.54	3.37	9.81	4.905	0	94	93.1	1630	94	94	1630	62.5	63	
3	6.06	3.567	9.81	4.905	0	106	105.9	1842	106	105.6	1842	70.5	71.7	
4	6.155	3.741	9.81	4.905	0	111	110	1903	111	110	1907	74.0	73.3	
5	6.85	4.17	9.81	5.818	3.05	129.6	128	2228	96	94.5	1639	64.0	64	
6	2.04	1.308	3.64	2.525	.644	35.4	35.2	613	19	20.5	353	34.	33.4	
7	3.269	2.226	3.64	2.525	1.344	71	70.2	1218	48	49.9	864	86.	87	
8	3.584	2.413	3.64	2.525	1.47	80	78.3	1375	56	57.8	1000	100.5	105	
9	.891	.5557	1.428	.990	.276	16	15.8	284	9.4	9.0	172	43.	41	
10	1.419	1.023	1.428	.990	.601	32	32.2	559	23	23.2	406	105.5	105.0	
11	1.515	1.041	1.428	.990	.632	34.6	34	603	25	25.5	446	114.5	116.9	
			Allowed:				±3% or ±1.0			±4% or ±1.0			±4%	

DATA TAKEN AT TEMP/ALTITUDE TEST STEP 2

Date 2/4/65 Time 3:45 P.M.

ACCEPTED ✓

REJECTED _____

PLATE 1223

TEST RECORD A3D NET THRUST SYSTEM

REF: PLATE No. 1155

TESTER: RD Sharp

(Based on: A_7=464, A_2=685, $\frac{100\% F_n}{\delta}$ =15000 MOD. No: TME 303 SER. No: 3 DATE: 2-4-65.

SIMULATOR DIALS

TEST	P_{t7} "H_g $\frac{}{.72}$	$P_{\Delta 7}$ "H_g $\frac{}{30.5}$	P_a "H_g $\frac{}{30.5}$	P_{t2} "H_g $\frac{}{61}$	$P_{\Delta 2}$ "H_g $\frac{}{16.3}$	DES. F_g 100's	IND. F_g 100's	IND. F_g MV	DES. F_n 100's	IND. F_n 100's	MEAS. F_n MV	DES. F_n/δ %	IND. F_n/δ %	OK
1	3.35	2.095	9.81	4.905	0	47	47.7	837	47	47.8	839	31.5	31.7	
2	5.54	3.37	9.81	4.905	0	94	93.9	1625	94	93.5	1625	62.5	62	
3	5.06	[illegible]	9.81	4.905	0	106	105.7	1827	106	105.5	1827	70.5	71.8	
4	6.155	5.741	9.81	4.905	0	111	[illegible]	1900	111	108.7	1900	74.0	74.3	
5	[illegible]	4.17	9.81	5.318	3.05	129.6	128	2225	96	94.6	1631	64.0	64	
6	2.04	[illegible]	3.64	2.525	.644	35.4	35.4	610	19	20.1	351	36.	35.5	
7	3.269	2.226	3.64	2.525	1.344	71	70.2	1211	48	49.1	860	86.	88	
8	3.584	2.413	3.64	2.525	1.47	80	79.9	1371	56	57	1002	100.5	104	
9	.891	.5557	1.428	.990	.276	16	15.8	284	9.4	9.3	170	43.	41.8	
10	1.419	1.023	1.428	.990	.601	32	32.3	553	23	23.3	407	105.5	105.1	
11	1.515	1.041	1.428	.990	.632	34.6	34.3	603	25	25.1	449	114.5	116	
			Allowed:				±3% or ±1.0			±4% or ±1.0			±4%	

DATA TAKEN AT TEMPERATURE/ALTITUDE TEST STEP 4

Date 2/4/65 Time 6:00 P.M.

ACCEPTED ✓

REJECTED

PLATE 1223

TEST RECORD A3D NET THRUST SYSTEM

REF: PLATE No. 1155

TESTER: RS Shay

(Based on: A_7=464, A_2=685, $\frac{100\%F_n}{\delta}$=15000 MOD. No: TME-303 SER. No: 3 DATE: 2-5-65

SIMULATOR DIALS

TEST	P_{t7} "H_g .22	$P_{\Delta 7}$ "H_g 30.5	P_a "H_g 30.5	P_{t2} "H_g 61	$P_{\Delta 2}$ "H_g 16.3	DES. F_g 100's	IND. F_g 100's	IND. F_g MV	DES. F_n 100's	IND. F_n 100's	MEAS. F_n MV	DES. F_n/δ %	IND. F_n/δ %	OK
1	3.35	2.096	9.81	4.905	0	47	48.2	840	47	48.0	840	31.5	31.8	
2	5.54	3.57	9.81	4.905	0	94	93.1	1630	94	93.1	1629	62.5	62.	
3	6.05	illegible	9.81	4.905	0	106	105.6	1837	106	105.6	1837	70.5	71.9	
4	6.155	3.741	9.81	4.905	0	111	108.9	1912	111	109.0	1912	74.0	illegible	
5	6.35	illegible	9.81	5.818	3.05	129.6	128.1	2228	96	95	1628	illegible	64	
6	2.04	illegible	3.64	2.525	.644	35.4	35.2	612	19	20.1	353	34.	34.8	
7	3.269	2.226	3.64	2.525	1.344	71	71	1215	48	49	862	86.	85	
8	3.584	2.413	3.64	2.525	1.47	80	79.1	1375	56	57.2	999	100.5	104.7	
9	.891	.5557	1.428	.990	.276	16	15.9	284	9.4	9.3	171	43.	42	
10	1.419	1.023	1.428	.990	.601	32	31.9	556	23	23.1	407	105.5	105	
11	1.515	1.041	1.428	.990	.632	34.6	34.6	603	25	25.7	448	114.5	115.9	
			Allowed:				±3% or ±1.0			±4% or ±1.0			±4%	

DATA TAKEN AT TEMP/ALTITUDE TEST STEP 6

DATE 2/5/65 Time 3:30 P.M.

ACCEPTED ✓

REJECTED _____

PLATE 1223

TEST RECORD A3D NET THRUST SYSTEM

REF: PLATE No. 1155

TESTER: [illegible]

(Based on: A_7=464, A_2=685, $\frac{100\%F_n}{\delta}$=15000 MOD. No: TME 303 SER. No: 3 DATE: 2-5-65

SIMULATOR DIALS

TEST	P_{t7} "H_g .22	$P_{\Delta 7}$ "H_g 30.5	P_a "H_g 30.5	P_{t2} "H_g 61	$P_{\Delta 2}$ "H_g 16.3	DES. F_g 100's	IND. F_g 100's	IND. F_g MV	DES. F_n 100's	IND. F_n 100's	MEAS. F_n MV	DES. F_n/δ %	IND. F_n/δ %	OK
1	3.85	2.095	9.81	4.905	0	47	47.3	845	47	47.0	845	31.5	31.2	
2	5.54	3.37	9.81	4.905	0	94	94.9	1631	94	93.1	1631	62.5	62.4	
3	6.05	3.837	9.81	4.905	0	106	105.7	1839	106	106.3	1839	70.5	70.1	
4	6.155	3.741	9.81	4.905	0	111	109	1908	111	110	1907	74.0	73	
5	6.85	4.17	9.81	5.818	3.05	129.6	128.9	2230	96	96.4	2239	64.0	64.5	
6	2.04	1.303	3.64	2.525	.644	35.4	35.8	612	19	19.6	351	54.	35.1	
7	3.269	2.226	3.64	2.525	1.344	71	71.9	1211	48	48.9	861	86.	87	
8	3.584	2.413	3.64	2.525	1.47	80	81.	1369	56	57	1003	100.5	100	
9	.891	.5557	1.428	.990	.276	16	16.9	288	9.4	9.5	172	43.	43.1	
10	1.419	1.023	1.428	.990	.601	32	31	559	23	23.6	406	105.5	105.2	
11	1.515	1.041	1.428	.990	.632	34.6	34	602	25	25.1	450	114.5	115.1	
			Allowed:				±3% or ±1.0			±4% or ±1.0			±4%	

DATA TAKEN AT TEMP/ALTITUDE TEST STEP 7

DATE 2/5/65 Time 8:30 P.M.

ACCEPTED ✓

REJECTED _____

PLATE 1223

TEST RECORD A3D NET THRUST SYSTEM

REF: PLATE No. 1155 — TESTER: *ODShop*

(Based on: A_7=464, A_2=685, $\frac{100\%F_n}{\delta}$=15000 — MOD. No: *TME 303* — SER. No: 3 — DATE: *2-5-65*

SIMULATOR DIALS

TEST	P_{t7} "H_g ÷ .22	$P_{\Delta 7}$ "H_g ÷ 30.5	P_a "H_g ÷ 30.5	P_{t2} "H_g ÷ 61	$P_{\Delta 2}$ "H_g ÷ 16.3	DES. F_g 100's	IND. F_g 100's	IND. F_g MV	DES. F_n 100's	IND. F_n 100's	MEAS. F_n MV	DES. F_n/δ%	IND. F_n/δ%	OK
1	3.85	2.095	9.81	4.905	0	47	48	841	47	48.1	837	31.5	31.4	
2	5.54	3.37	9.81	4.905	0	94	93.4	1637	94	93.8	1629	62.5	62.1	
3	6.06	[illegible]	9.81	4.905	0	106	105.9	1838	106	106.1	1836	70.5	71.0	
4	6.155	3.741	9.81	4.905	0	111	109.5	1900	111	109	1900	74.0	74.1	
5	6.85	4.17	9.81	3.818	3.05	129.6	128	2228	96	95.7	1631	64.0	64.0	
6	2.04	1.303	3.64	2.525	.644	35.4	35.3	613	19	19.1	354	36.	35.7	
7	3.269	2.226	3.64	2.525	1.344	71	70.3	1212	48	48.5	860	86.	86.9	
8	3.584	2.413	3.64	2.525	1.47	80	79.5	1374	56	57.4	1802	100.5	104.1	
9	.891	.5557	1.428	.990	.276	16	16.1	282	9.4	9.1	173	43.	41.5	
10	1.419	1.023	1.428	.990	.601	32	32.3	550	23	23.1	406	105.5	105.3	
11	1.515	1.041	1.428	.990	.632	34.6	34.6	600	25	25.5	448	114.5	116.0	
			Allowed:				±3% or ±1.0			±4% or ±1.0			±4%	

DATE TAKEN AT TEMP/ALTITUDE TEST STEP &

DATE 2/5/65 Time 8:45 P.M.

ACCEPTED ✓

REJECTED ______

PLATE 1223

TEST RECORD A3D NET THRUST SYSTEM

REF: PLATE No. 1155

TESTER: [illegible]

(Based on: A_7=464, A_2=685, $\frac{100\%F_n}{\delta}$=15000 MOD. No: TME 303 SER. No: 3 DATE: 2-5-65

SIMULATOR DIALS

TEST	P_{t7} "H_g / .22	$P_{\Delta 7}$ "H_g / 30.5	P_a "H_g / 30.5	P_{t2} "H_g / 61	$P_{\Delta 2}$ "H_g / 16.3	DES. F_g 100's	IND. F_g 100's	IND. F_g MV	DES. F_n 100's	IND. F_n 100's	MEAS. F_n MV	DES. F_n/δ%	IND. F_n/δ%	OK
1	3.85	2.095	9.81	4.905	0	47	48.7	843	47	47	842	31.5	31.9	
2	5.54	3.37	9.81	4.905	0	94	93.0	1629	94	93.7	1629	62.5	62.3	
3	6.06	3.807	9.81	4.905	0	106	105.1	1841	106	105.7	1841	70.5	71.1	
4	6.155	3.741	9.81	4.905	0	111	112.9	1909	111	112.6	1909	74.0	74.7	
5	6.85	4.17	9.81	5.818	3.05	139.6	130.1	2229	96	95.8	1639	64.0	63.9	
6	2.04	1.[illegible]	5.64	2.525	.644	55.4	35.1	610	19	19.8	353	34.	34.8	
7	3.269	2.226	5.64	2.525	1.344	71	70.9	1213	48	49	862	36.	87.1	
8	3.584	2.413	5.64	2.525	1.47	80	78.7	1370	56	56.8	1002	100.5	103.9	
9	.891	.5557	1.428	.990	.276	16	15.5	286	9.4	9.2	171	43.	42.9	
10	1.419	1.023	1.428	.990	.601	32	33	560	23	23.5	405	105.5	106	
11	1.515	1.041	1.428	.990	.632	34.6	35	600	25	25.9	449	114.5	114	
			Allowed:				±3% or ±1.0			±4% or ±1.0			±4%	

DATA TAKEN AT TEMP/ALTITUDE TEST STEP 7

Date 2/5/65 Time 9:00 P.M.

ACCEPTED ✓

REJECTED _____

PLATE 1223

TIME 1130 AM

TEST RECORD A3D NET THRUST SYSTEM

REF: PLATE No. 1155 TESTER: RS Shope

(Based on: A_7=464, A_2=685, $\frac{100\%F_n}{\delta}$=15000 MOD. No: THIE 303 SER. No: 3 DATE: 2·6·65

SIMULATOR DIALS

TEST	P_{t7} "H_g / .22	$P_{\Delta 7}$ "H_g / 30.5	P_a "H_g / 30.5	P_{t2} "H_g / 61	$P_{\Delta 2}$ "H_g / 16.3	DES. F_g 100's	IND. F_g 100's	IND. F_g MV	DES. F_n 100's	IND. F_n 100's	MEAS. F_n MV	DES. F_n/δ %	IND. F_n/δ %	OK
1	3.85	2.095	9.81	4.905	0	47	46.9	830	47	47	830	31.5	31	
2	5.54	3.37	9.81	4.905	0	94	93	1628	94	93	1628	62.5	62	
3	6.06	3.567	9.81	4.905	0	106	105	1836	106	105	1836	70.5	71	
4	6.155	3.741	9.31	4.905	0	111	108.7	1900	111	108.9	1900	74.0	73.9	
5	6.85	4.17	9.81	5.818	3.05	129.6	127	2229	96	93.5	1630	64.0	63.9	
6	2.04	1.308	3.64	2.525	.644	35.4	35	610	19	19	350	34.	34	
7	3.269	2.226	3.64	2.525	1.344	71	69.9	1205	48	48.2	859	86.	87	
8	3.584	2.413	3.64	2.525	1.47	80	78.8	1370	56	57	997	100.5	104	
9	.891	.5557	1.428	.990	.276	16	15.8	282	9.4	9.0	170	43.	41.5	
10	1.419	1.023	1.428	.990	.601	32	32.0	553	23	22.9	405	105.5	104.9	
11	1.515	1.041	1.428	.990	.632	34.6	34	602	25	25	443	114.5	115	
			Allowed:				±3% or ±1.0			±4% or ±1.0			±4% / ±6%	

DATA TAKEN AT TEMP/ALTITUDE STEP 8

DATE 2/6/65 Time 9:00 A.M.

ACCEPTED ✓

REJECTED _____

PLATE 1223

A3D NET THRUST/ALTITUDE STEP

DATA TAKEN AT TEMP/ALTITUDE STEP 8

DATE 2/6/65 Time 9:35 A.M.

TEST RECORD A3D NET THRUST SYSTEM

REF: PLATE No. 1155

TESTER: RS Shop

(Based on: A_7=464, A_2=685, $\frac{100\%F_n}{\delta}$=15000 MOD. No: THE 303 SER. No: 3 DATE: 2-6-65

SIMULATOR DIALS

TEST	P_{t7} "H_g / .22	$P_{\Delta 7}$ "H_g / 30.5	P_a "H_g / 30.5	P_{t2} "H_g / 61	$P_{\Delta 2}$ "H_g / 16.3	DES. F_g 100's	IND. F_g 100's	IND. F_g MV	DES. F_n 100's	IND. F_n 100's	MEAS. F_n MV	DES. F_n/δ %	IND. F_n/δ %	OK
1	3.85	2.095	9.81	4.905	0	47	49.3	840	47	48	840	31.5	31.9	
2	5.54	3.37	9.81	4.905	0	94	93 9	1634	94	93.7	1634	62.5	63	
3	6.06	3.567	9.81	4.905	0	106	105.7	1838	106	105.7	1838	70.5	71.5	
4	6.155	3.741	9.81	4.905	0	111	108.9	1912	111	108.9	1912	74.0	74.6	
5	6.85	4.17	9.81	5.818	3.05	129.6	128	2231	96	94.4	1639	64.0	64	
6	2.04	1.308	3.64	2.525	.644	35.4	35.1	614	19	20.9	353	34.	35.6	
7	3.269	2.226	3.64	2.525	1.344	71	71	1208	48	49.9	862	86.	88.7	
8	3.584	2.413	3.64	2.525	1.47	80	79 1	1373	56	57.6	999	100.5	104.7	
9	.891	.5557	1.428	.990	.276	16	16.5	284	9.4	9.4	173	43.	42.2	
10	1.419	1.023	1.428	.990	.601	32	32.1	554	23	23.2	407	105.5	104.7	
11	1.515	1.041	1.428	.990	.632	34.6	34.7	605	25	25.7	448	114.5	116.9	
			Allowed:				±3% or ±1.0			±4% or ±1.0			±4% ±6%	

ACCEPTED ✓

REJECTED _____

PLATE 1223

11:00 A/M

TEST RECORD A3D NET THRUST SYSTEM

REF: PLATE No. 1155

TFSTFR: RD Shop

(Based on: A_7=464, A_2=685, $\frac{100\%F_n}{\delta}$=15000

MOD. No: TME-303 SER. No: 3 DATE: 2-6-65

SIMULATOR DIALS

TEST	P_{t7} "H_g / .22	$P_{\Delta 7}$ "H_g / 30.5	P_a "H_g / 30.5	P_{t2} "H_g / 61	$P_{\Delta 2}$ "H_g / 16.3	DES. F_g 100's	IND. F_g 100's	IND. F_g MV	DES. F_n 100's	IND. F_n 100's	MEAS. F_n MV	DES. F_n lb %	IND. F_n lb %	OK
1	3.85	2.095	9.81	4.905	0	47	47.5	836	47	48	836	31.5	31.2	
2	5.54	3.37	9.81	4.905	0	94	92.9	1632	94	93	1631	62.5	62.7	
3	6.06	3.567	9.81	4.905	0	106	105.5	1844	106	106	1844	70.5	72.1	
4	6.155	3.741	9.81	4.905	0	111	108.7	1900	111	108.8	1901	74.0	74	
5	6.85	4.17	9.81	5.818	3.05	129.6	127.2	2232	96	94.6	1641	64.0	64.2	
6	2.04	1.308	3.64	2.525	.644	35.4	35.3	612	19	20.2	352	36.	36	
7	3.269	2.226	3.64	2.525	1.344	71	70.8	1213	48	49.6	863	86.	88.9	
8	3.584	2.413	3.64	2.525	1.47	80	78.3	1376	56	57.9	1000	100.5	105.2	
9	.891	.5557	1.428	.990	.276	16	16.0	284	9.4	9.0	173	43.	42	
10	1.419	1.023	1.428	.990	.601	32	32.2	555	23	23.1	407	105.5	105.4	
11	1.515	1.041	1.428	.990	.632	34.6	34.6	603	25	25.7	448	114.5	116.2	
			Allowed:				±3% or ±1.0			±4% or ±1.0			±4% / ±6%	

DATE TAKEN AT TEMP/ALTITUDE STEP 8

DATE 2/6/65 Time 11:00 A,M.

ACCEPTED ✓

REJECTED _____

PLATE 1223

DATA TAKEN AT TEMP/ALTITUDE STEP 9

DATE 2/6/65 Time 1:45 PM

TEST RECORD A3D NET THRUST SYSTEM

REF: PLATE No. 1155

TESTER: RSDhop

(Based on: A_7=464, A_2=685, $\frac{100\%F_n}{\delta}$=15000 MOD. No: TME 303 SER. No: 3 DATE: 2·6·65

SIMULATOR DIALS

TEST	P_{t7} "H_g / .22	$P_{\Delta 7}$ "H_g / 30.5	P_s "H_g / 30.5	P_{t2} "H_g / 61	$P_{\Delta 2}$ "H_g / 16.3	DES. F_g 100's	IND. F_g 100's	IND. F_g MV	DES. F_n 100's	IND. F_n 100's	MEAS. F_n MV	DES. F_n/δ %	IND. F_n/δ %	OK
1	3.85	2.095	9.81	4.905	0	47	47	837	47	48	837	31.5	32.1	
2	5.54	3.37	9.81	4.905	0	94	93.2	1628	94	93.8	1628	62.5	63	
3	6.06	3.867	9.81	4.905	0	106	105.8	1842	106	105.6	1842	70.5	72	
4	6.155	3.741	9.81	4.905	0	111	108 8	1908	111	109.1	1908	74.0	74.3	
5	6.85	[illegible]	9.81	[illegible]	3.05	129.6	128	2232	96	93.7	1640	64.0	64	
6	2.04	[illegible]	3.64	2.525	.644	35.4	35.3	616	19	20.1	254	34.	36	
7	3.269	2.2[illegible]	3.64	2.525	1.344	71	70.2	1210	48	49	862	86.	88.8	
8	3.584	2.413	3.64	2.525	1.47	80	78.9	1378	56	57.7	1002	100.5	104.9	
9	.891	.5557	1.428	.990	.276	16	15.9	284	9.4	9.3	172	43.	42.	
10	1.419	1.023	1.428	.990	.601	32	32.2	562	23	23.1	407	105.5	105	
11	1.515	1.041	1.428	.990	.632	34.6	34. 7	605	25	25.6	448	114.5	116	
			Allowed:				±3% or ±1.0			±4% or ±1.0			±4% / ±6%	

DATA TAKEN AT TEMP/ALTITUDE STEP 9

DATE 2/6/65 Time 1:45 P.M.

ACCEPTED ✓

REJECTED _____

PLATE 1223

TEST RECORD A3D NET THRUST SYSTEM

REF: PLATE No. 1155 TESTER: [signature]

(Based on: A_7=464, A_2=685, $\frac{100\%F_n}{\delta}$=15000 MOD. No: TME 303 SER. No: 3 DATE: 2-6-65

SIMULATOR DIALS

TEST	P_{t7} "H_g / .2[illegible]	$P_{\Delta 7}$ "H_g / [illegible]	P_a "H_g / 30.5	P_{t2} "H_g / 61	$P_{\Delta 2}$ "H_g / 15.3	DES. F_g 100's	IND. F_g 100's	IND. F_g MV	DES. F_n 100's	IND. F_n 100's	MEAS. F_n MV	DES. F_n/δ %	IND. F_n/δ %	OK
1	3.85	2.095	9.81	4.905	0	47	47.9	828	47	47.2	839	31.5	31.8	
2	5.54	3.37	9.81	4.905	0	94	93	1632	94	93.0	1629	62.5	62.5	
3	[illegible]	[illegible]	9.81	4.905	0	106	105.7	1841	106	105.7	1839	70.5	71.9	
4	6.155	3.741	9.81	4.905	0	111	109.2	1907	111	108.9	1909	74.0	74.3	
5	[illegible]	[illegible]	9.81	5.313	3.05	129.6	128	2229	96	94.2	1635	64.0	64	
6	2.04	[illegible]	3.64	2.525	.644	35.4	35.2	613	19	20	353	[illegible]	35.8	
7	3.269	[illegible]	3.64	2.525	1.344	71	70.3	1217	48	48.9	862	86.	88.9	
8	3.584	[illegible]	3.64	2.525	1.47	80	78.9	1375	56	57.8	1000	100.5	104.8	
9	.891	.5557	1.428	.990	.276	16	15.9	281	9.4	9.3	171	43.	41.7	
10	1.419	1.023	1.428	.990	.601	32	32.2	553	23	23.1	407	105.5	105	
11	1.515	1.041	1.428	.990	.632	34.6	34.4	605	25	25.7	449	114.5	116	
			Allowed:				±3% or ±1.0			±4% or ±1.0			±4% / ±6%	

DATA TAKEN AT TEMP/ALTITUDE STEP 10

DATE 2/6/65 Time 3:00 P.M.

ACCEPTED ✓

REJECTED

PLATE 1223

DATA TAKEN AT TEMP/ALT STEP 10

DATE 2-6-65 TIME 3:45 PM

TEST RECORD A3D NET THRUST SYSTEM

REF: PLATE No. 1155

TESTER: R Shoup

(Based on: A_7=464, A_2=685, $\frac{100\%F_n}{\delta}$=15000 MOD. No: TME 303 SER. No: 3 DATE: 2-6-65

SIMULATOR DIALS

TEST	P_{t7} "H_g / .22	$P_{\Delta 7}$ "H_g / 30.5	P_a "H_g / 30.5	P_{t2} "H_g / 61	$P_{\Delta 2}$ "H_g / 16.3	DES. F_g 100's	IND. F_g 100's	IND. F_g MV	DES. F_n 100's	IND. F_n 100's	MEAS. F_n MV	DES. F_n/δ %	IND. F_n/δ %	OK
1	3.85	2.095	9.81	4.905	0	47	47.7	838	47	46.9	838	31.5	31.7	
2	5.54	3.37	9.81	4.905	0	94	93.2	1631	94	93.3	1631	62.5	63	
3	6.06	3.767	9.81	4.905	0	106	105.4	1827	106	105.4	1827	70.5	71.8	
4	6.155	3.741	9.81	4.905	0	111	108.8	1907	111	108.9	1907	74.0	74.2	
5	6.85	4.17	9.81	5.818	3.05	129.6	128	2232	96	94.7	1640	64.0	64.2	
6	2.04	1.308	3.64	2.525	.644	35.4	35.3	612	19	20.8	351	34.	36	
7	3.269	2.226	3.64	2.525	1.344	71	71.2	1223	48	49.9	860	86.	89.1	
8	3.584	2.413	3.64	2.525	1.47	80	78.4	1381	56	57.9	1003	100.5	102.8	
9	.891	.5557	1.428	.990	.276	16	15.8	285	9.4	9.1	173	15.	42	
10	1.419	1.023	1.428	.990	.601	32	32	557	23	23.3	407	105.5	105.9	
11	1.515	1.041	1.428	.990	.632	34.6	34.8	607	25	25.8	448	114.5	116.5	
			Allowed:				±3% or ±1.0			±1% or ±1.0			±4% / ±6%	

DATA TAKEN AT TEMP/ALT STEP 10

DATE 2/6/65 Time 3:45 P.M.

ACCEPTED ✓

REJECTED _____

PLATE 1223

TEST RECORD A3D NET THRUST SYSTEM

REF: PLATE No. 1155

TESTER: RDShop

(Based on: A_7=464, A_2=685, $\frac{100\%F_n}{\delta}$=15000 MOD. No: TME 303 SER. No: 3 DATE: 2·6·65

SIMULATOR DIALS

TEST	P_{t7} "H_g .22	$P_{\Delta 7}$ "H_g 30.5	P_a "H_g 30.5	P_{t2} "H_g 61	$P_{\Delta 2}$ "H_g 16.3	DES. F_g 100's	IND. F_g 100's	IND. F_g MV	DES. F_n 100's	IND. F_n 100's	MEAS. F_n MV	DES. F_n lb %	IND. F_n lb %	OK
1	3.85	2.095	9.81	4.905	0	47	47.9	838	47	47.8	838	31.5	31.7	
2	5.54	3.37	9.81	4.905	0	94	93.8	1628	94	93.6	1628	62.5	63.	
3	6.06	3.387	9.81	4.905	0	106	105.3	1836	106	105.4	1836	70.5	72	
4	6.155	3.741	9.81	4.905	0	111	110	1912	111	110.1	1912	74.0	75	
5	6.85	4.17	9.81	5.818	3.05	129.6	129.1	2236	96	95.1	1645	64.0	65	
6	2.04	1.308	3.64	2.525	.644	35.4	35.3	616	19	20	352	34.	36	
7	3.269	2.226	3.64	2.525	1.344	71	70.8	1218	48	49.9	864	86.	88.8	
8	3.584	2.413	3.64	2.525	1.47	80	79.3	1373	56	58	1002	100.5	105	
9	.891	.5557	1.428	.990	.276	16	16	284	9.4	9.4	174	43.	42	
10	1.419	1.023	1.428	.990	.601	32	32.2	552	23	23	408	105.5	105.5	
11	1.515	1.041	1.428	.990	.632	34.6	34.4	603	25	25.8	449	114.5	115.5	
			Allowed:				±3% or ±1.0			±4% or ±1.0			±4% ±6%	

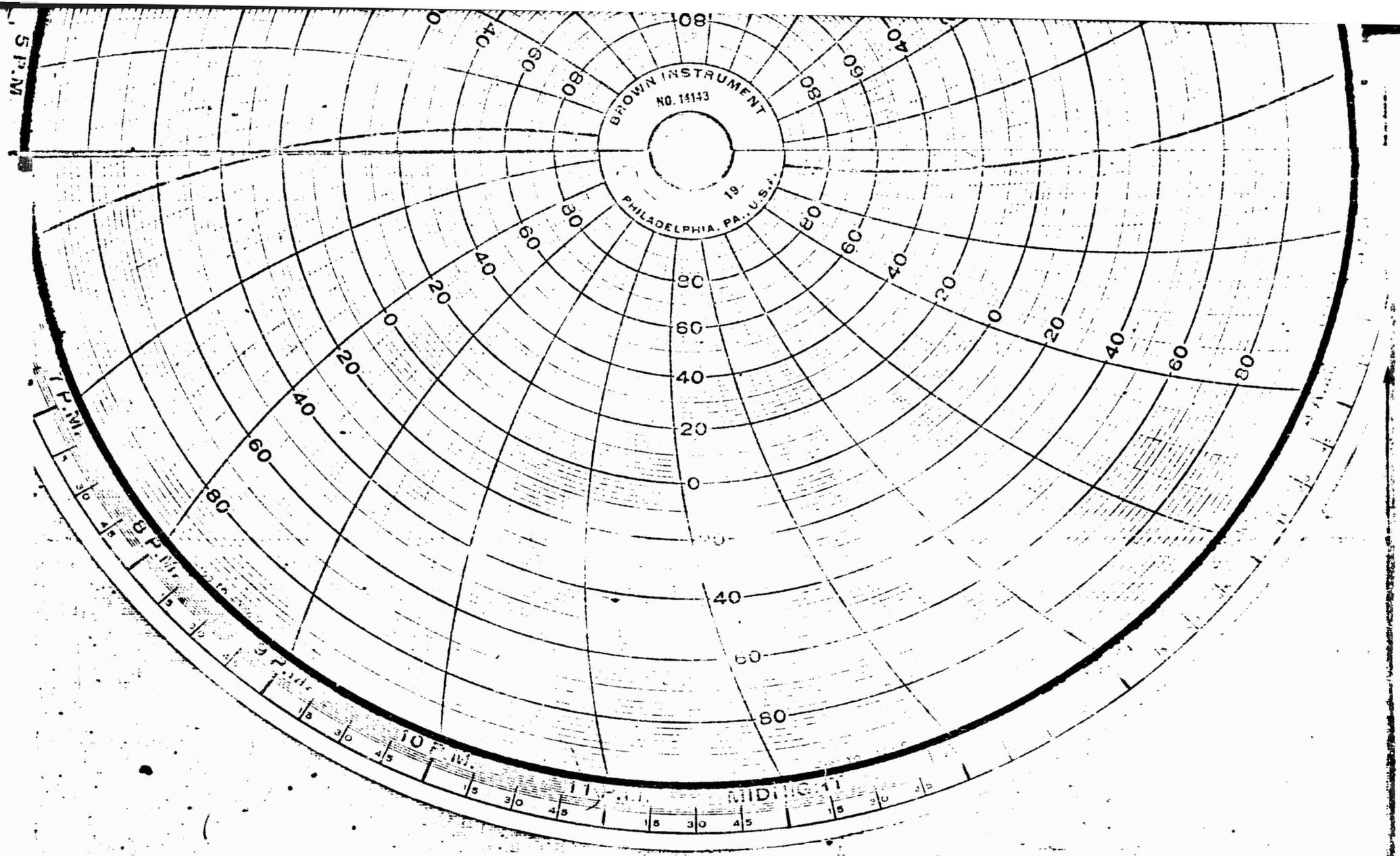
DATA TAKEN AT TEMP/ALTITUDE STEP 10

DATE 2/6/65 Time 4:30 P.M.

ACCEPTED ✓

REJECTED _____

PLATE 1223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11 P.M.
MIDNIGHT
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60
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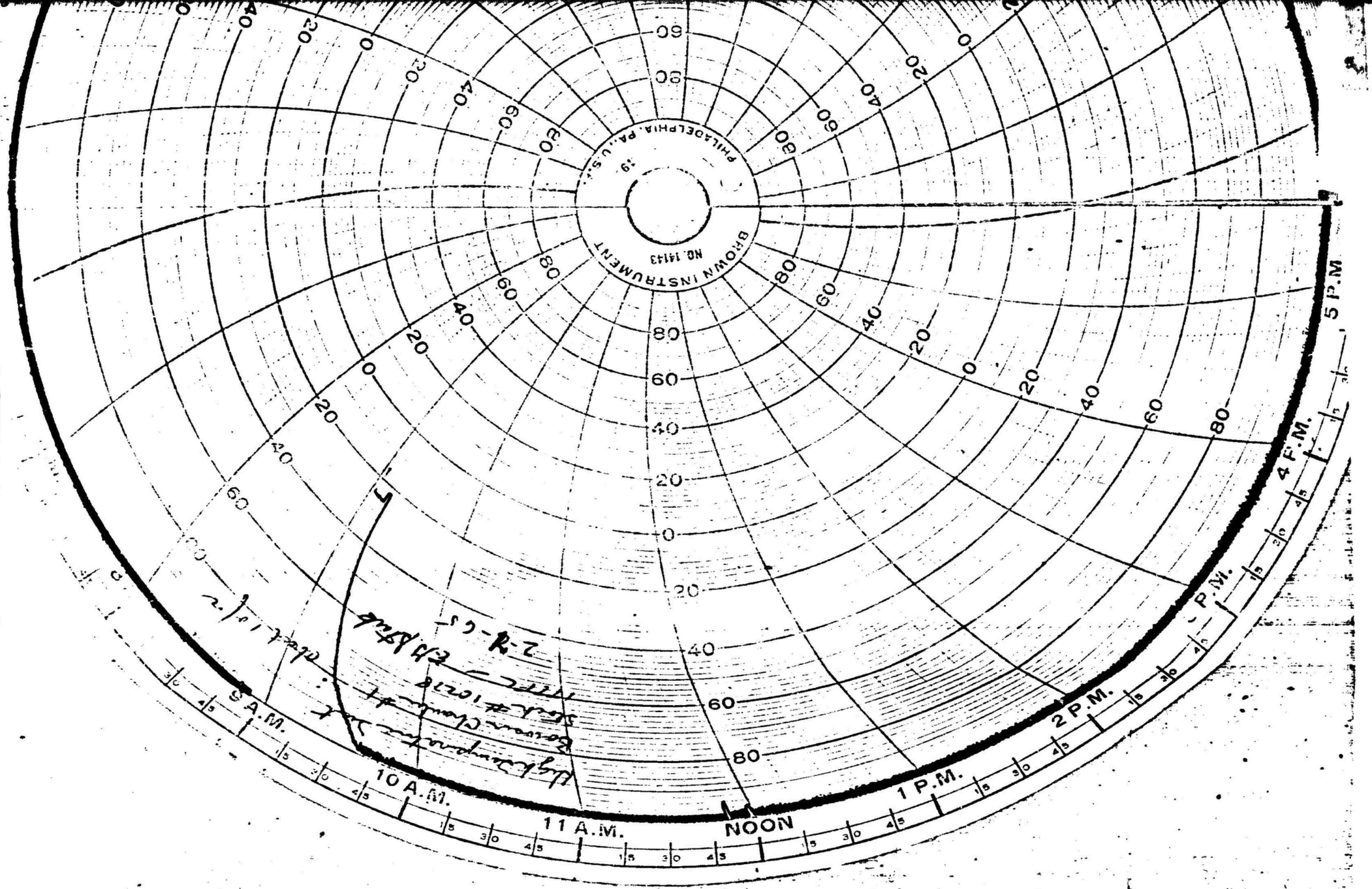
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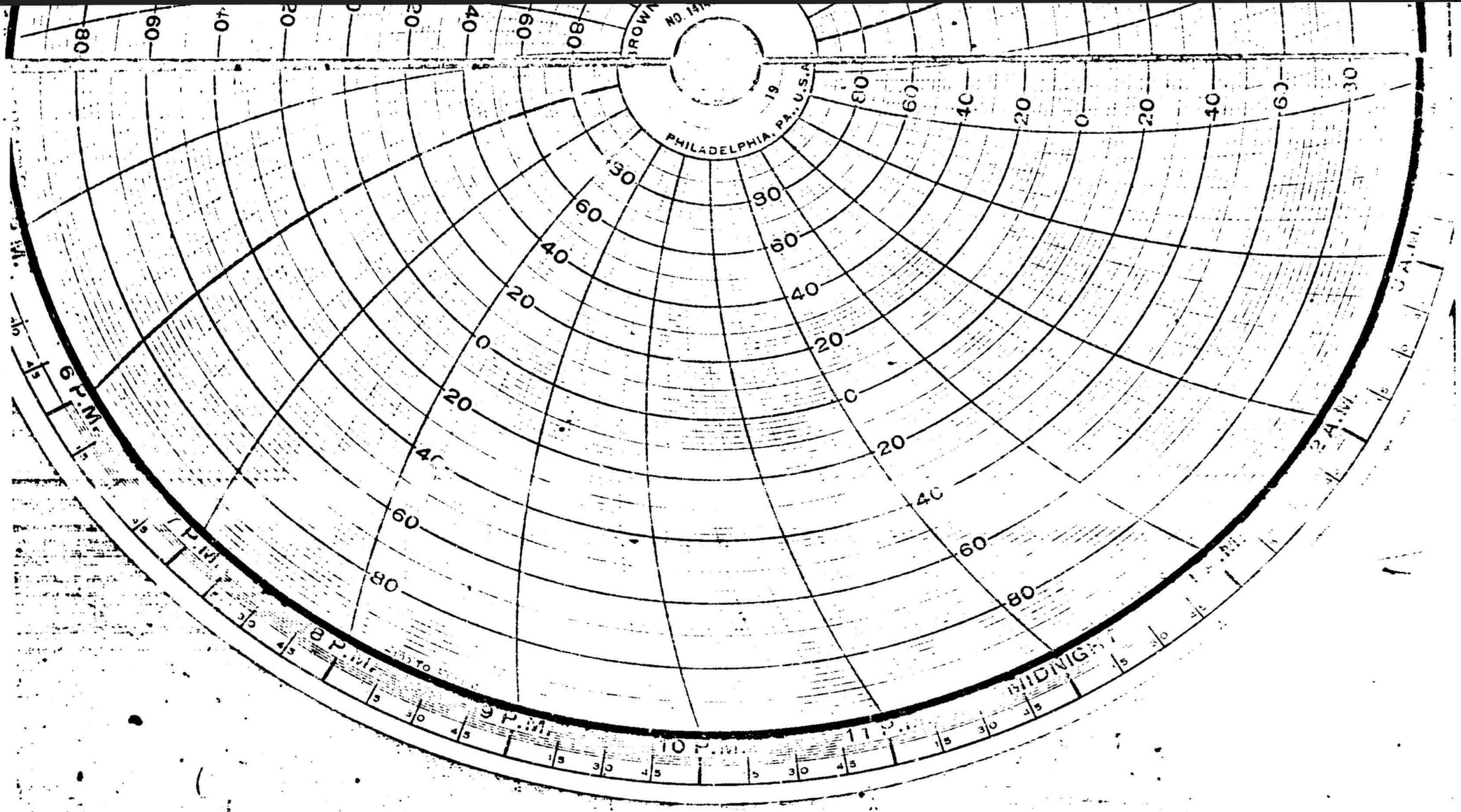
5 P.M.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7 P.M.
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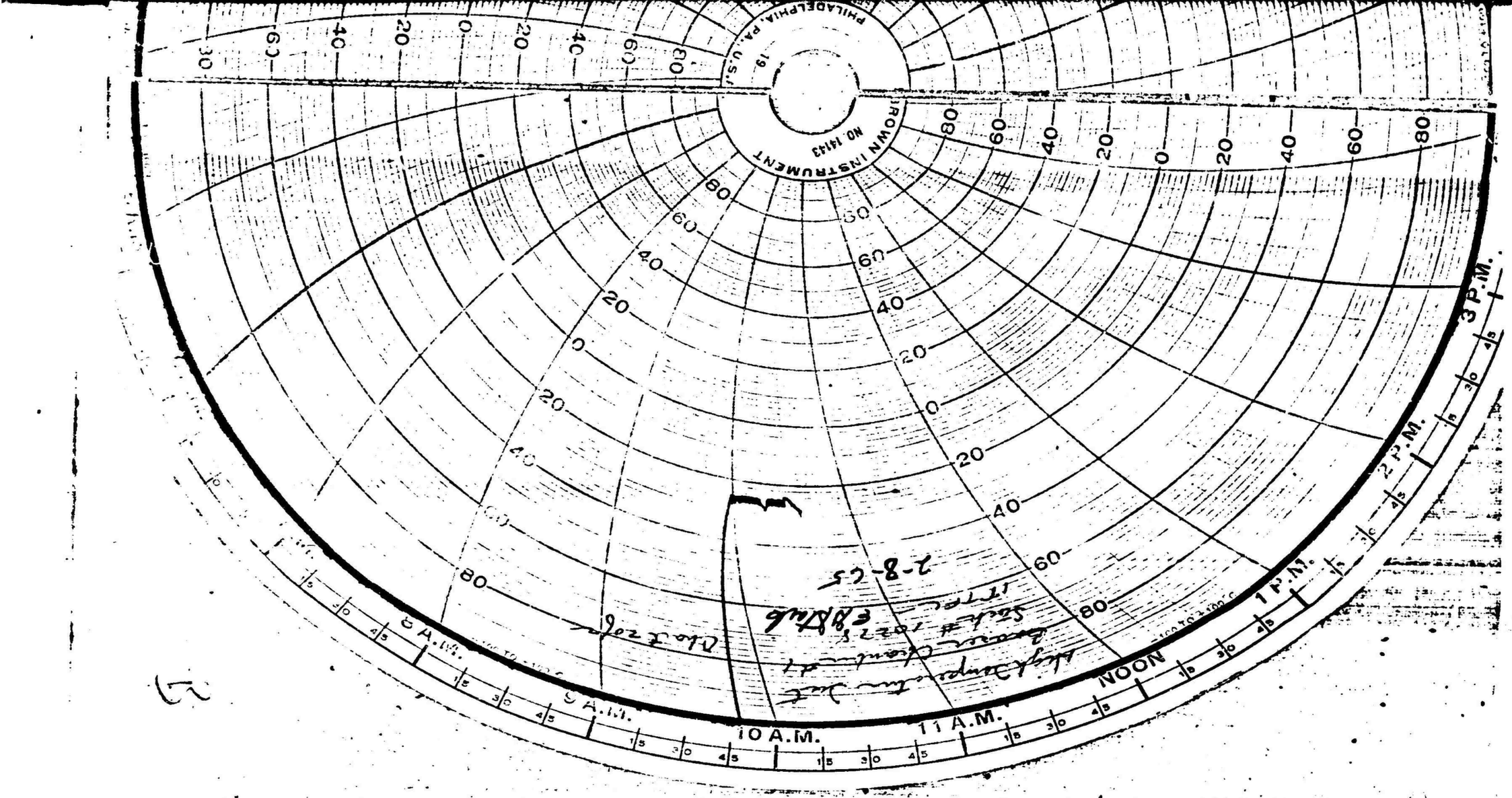
9 P.M.
10 P.M.
11 P.M.
MIDNIGHT
1 A.M.
2 A.M.
3 A.M.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20
40
60
80
5 A.M.
6 A.M.
7 A.M.
8 A.M.
9 A.M.
10 A.M.
11 A.M.
NOON
1 P.M.
2 P.M.
3 P.M.
1/5
3/0
4/5

TEST RECORD A3D NET THRUST SYSTEM

REF: PLATE No. 1155

TESTER: DDSlay

(Based on: A_7=464, A_2=685, $\frac{100\%F_n}{\delta}$=15000 MOD. No: TmE 303 SER. No: 3 DATE: 2·9·65

SIMULATOR DIALS

TEST	P_{t7} "H_g .22	$P_{\Delta 7}$ "H_g 30.5	P_a "H_g 30.5	P_{t2} "H_g 61	$P_{\Delta 2}$ "H_g 16.3	DES. F_g 100's	IND. F_g 100's	IND. F_g MV	DES. F_n 100's	IND. F_n 100's	MEAS. F_n MV	DES. F_n/δ %	IND. F_n/δ %	OK
1	3.85	2.093	9.81	4.905	0	47	48	830	47	47·9	830	31.5	31·6	
2	5.54	3.37	9.81	4.905	0	94	94·4	1635	94	94·4	1635	63.5	63·5	
3	6.06	3.567	9.81	4.905	0	106	106·2	1840	106	106·2	1840	72.	72	
4	6.155	3.741	9.81	4.905	0	111	111	1913	111	110·9	1913	74.0	74·5	
5	6.85	4.17	9.81	5.818	3.05	129.6	128·9	2230	96	95.	1640	64.0	64·5	
6	2.04	1.306	3.64	2.525	.644	35.4	35·5	612	19	20·5	350	34.	35·5	
7	3.269	2.226	3.64	2.525	1.344	71	71·2	1216	48	49	860	86.	88	
8	3.584	2.413	3.64	2.525	1.47	80	79·5	1370	56	57·5	1003	100.5	104·5	
9	.891	.5537	1.428	.990	.276	16	16·5	289	9.4	9.5	179	43.	43·5	
10	1.419	1.023	1.428	.990	.601	32	32·6	555	23	23·5	401	105.5	106	
11	1.515	1.041	1.428	.990	.632	34.6	??	605	25	25·9	450	114.5	116	
			Allowed:				±3% or ±1.0			±4% or ±1.0			±4% / ±6%	

DATA TAKEN AT HIGH TEMPERATURE

DATE 2/9/65 Time 9:45 A.M.

ACCEPTED ✓

REJECTED _____

PLATE 1002

TEST RECORD A3D NET THRUST SYSTEM

REF: PLATE No. 1155

TESTER: RSShipp

(Based on: A_7=464, A_2=685, $\frac{100\%F_n}{\delta}$=15000 MOD. No: TME-303 SER. No: 3 DATE: 2-9-65

SIMULATOR DIALS

TEST	P_{t7} "H_g / .22	$P_{\Delta 7}$ "H_g / 30.5	P_a "H_g / 30.5	P_{t2} "H_g / 61	$P_{\Delta 2}$ "H_g / 16.3	DES. F_g 100's	IND. F_g 100's	IND. F_g MV	DES. F_n 100's	IND. F_n 100's	MEAS. F_n MV	DES. F_n/δ %	IND. F_n/δ %	OK
1	3.15	2.095	9.81	4.905	0	47	48	839	47	48	839	31.5	32.5	
2	5.54	3.37	9.81	4.905	0	94	93.5	1623	94	93	1623	62.5	63.5	
3	6.06	3.567	9.81	4.905	0	106	104.7	1828	106	104.7	1828	70.5	72.	
4	6.155	3.741	9.81	4.905	0	111	108.5	1888	111	108.5	1887	74.0	74.5	
5	6.85	4.17	9.81	5.818	3.05	129.6	127	2222	96	94	1641	64.0	64	
6	2.04	1.393	3.64	2.525	.644	35.4	35	607	19	20	350	34.	37.5	
7	3.269	2.236	3.64	2.525	1.344	71	70	1215	48	49.8	860	86.	89	
8	3.584	2.413	3.64	2.525	1.47	80	78.9	1380	56	58.5	1012	100.5	105	
9	.891	.5557	1.428	.990	.276	16	16	285	9.4	9.3	175	43.	42.5	
10	1.419	1.023	1.428	.990	.601	32	32	556	23	23.7	413	105.5	107	
11	1.515	1.041	1.428	.990	.632	34.6	34.6	605	25	26	452	114.5	117.9	
			Allowed:				±3% or ±1.0			±4% or ±1.0			±4% / ±6%	

ACCEPTED ✓

REJECTED _____

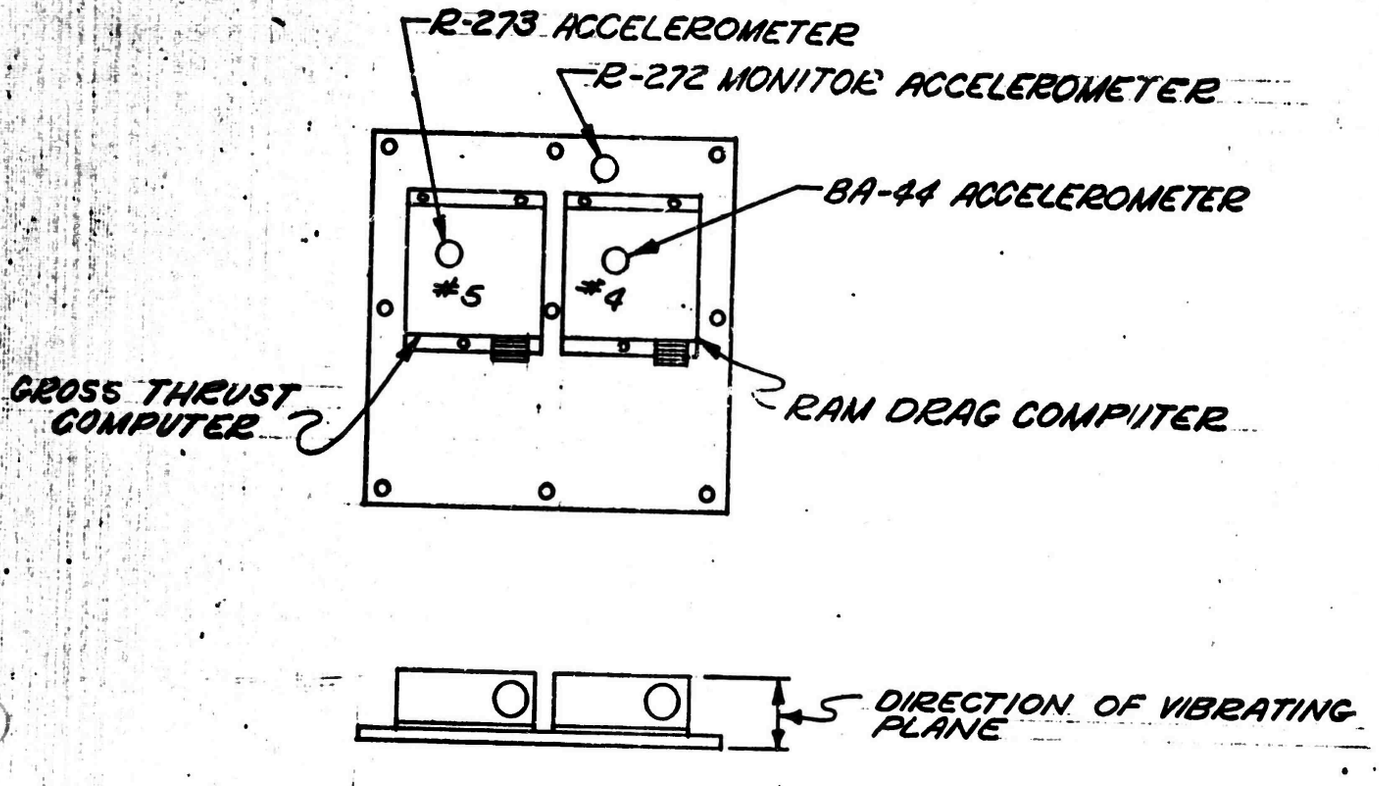
DATA TAKEN AFTER HIGH TEMPERATURE

DATE 2/9/65 Time 10:30 A.M.

PLATE 1223

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA SO. BEND, INDIANA LONG ISLAND CITY, N. Y.
2700 Nuttman Avenue, Fort Wayne, Indiana 46804



PLANE 1

NO RESONANCE FROM 5 TO 150 CPS

VIBRATION — 17.5 CPS

DATE — 2.9.65

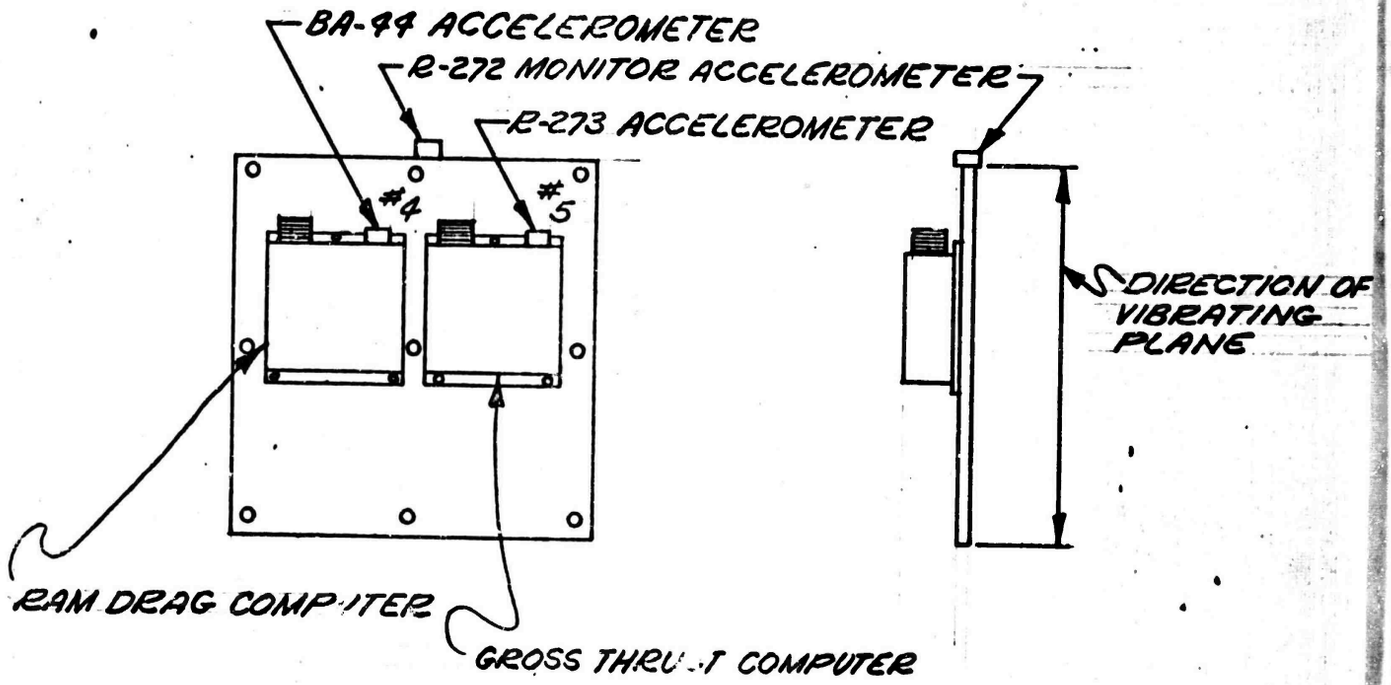
TIME — 4 HRS DURATION

VIBRATION TEST MOUNTING FIGURE 1

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA SO. BEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804



PLANE 2

NO RESONANCE FROM 5 TO 150 CPS

VIBRATION — 17.5 cps

DATE — 2-9-65

TIME — 4 HRS DURATION

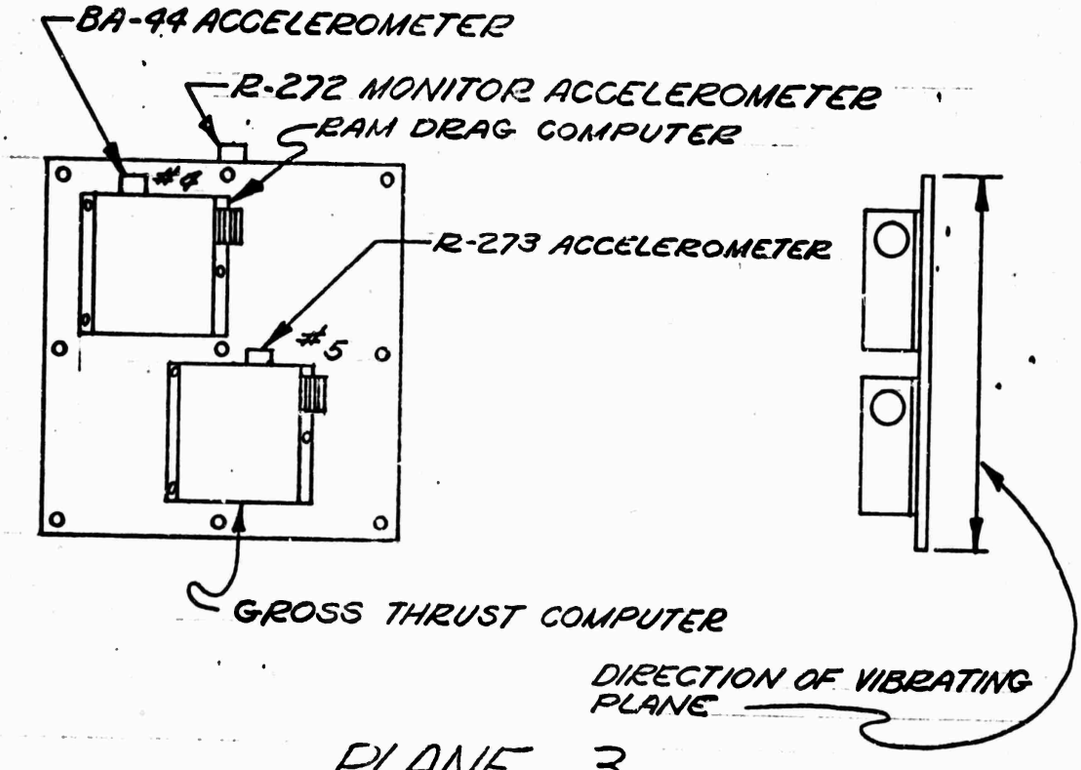
VIBRATION TEST

MOUNTING FIGURE 2

TELECTRO-MEK, INC.

FORT WAYNE, INDIANA SO. BEND, INDIANA LONG ISLAND CITY, N. Y.

2700 Nuttman Avenue, Fort Wayne, Indiana 46804



PLANE 3

NO RESONANCE FROM 5 - 150 CPS

VIBRATION - 17.5 CPS

DATE - 2-12-65.

TIME - 4 HRS DURATION

VIBRATION TEST

MOUNTING FIGURE 3

TEST RECORD A3D NET THRUST SYSTEM

REF: PLATE No. 1155

TESTER: *[illegible signature]*

(Based on: A_7=464, A_2=685, $\frac{100\%F_n}{\delta}$=15000 MOD. No: TME 303 SER. No: 3. DATE: 2-12-65.

SIMULATOR DIALS

TEST	P_{t7} "H_g .22	$P_{\Delta 7}$ "H_g 30.5	P_a "H_g 0.5	P_{t2} "H_g 61	$P_{\Delta 2}$ "H_g 16.3	DES. F_g 100's	IND. F_g 100's	IND. F_g MV	DES. F_n 100's	IND. F_n 100's	MEAS. F_n MV	DES. F_n/δ %	IND. F_n/δ %	OK
1	3.85	2.095	9.81	4.905	0	47	47.5	812	47	47.5	812	31.5	31.5	
2	5.54	3.37	9.81	4.905	0	94	92.6	1602	94	92.6	1602	62.5	62.4	
3	6.0[illegible]	3.[illegible]	9.81	4.905	0	106	104.3	1836	106	104.3	1836	70.5	70.4	
4	6.15[illegible]	3.741	9.81	4.905	0	111	108.5	1918	111	108.5	1918	74.0	73	
5	6.85	4.[illegible]	9.81	5.[illegible]	[illegible]	[illegible].6	127.3	2268	96	93.6	1632	64.0	63	
6	2.04	1.3[illegible]	3.64	2.525	.644	[illegible]5.4	34.9	605	19	19.4	338	34.	34.5	
7	3.269	2.226	3.64	2.525	1.344	71	70.5	1236	48	49	837	86.	87.5	
8	3.584	2.413	3.64	2.525	1.47	80	78.8	1379	56	57.2	1009	100.5	103	
9	.891	.5557	1.428	.990	.276	16	16	275	9.4	9.5	164	43.	43.5	
10	1.419	1.023	1.428	.990	.601	32	32.4	567	23	23.8	407	105.5	106.9	
11	1.515	1.041	1.428	.990	.632	34.6	34.5	600	25	25.9	446	114.5	115	
			Allowed:				±3% or ±1.0			±4% or ±1.0			±4% ±6%	

DATA TAKEN DURING VIBRATION TEST

DATE 2/12/65 Time 9:45 A.M.

ACCEPTED ✓

REJECTED ______

PLATE 1223

TEST RECORD A3D NET THRUST SYSTEM

REF: PLATE No. 1155

TESTER: RSShoja

(Based on: A_7=464, A_2=685, $\frac{100\%F_n}{5}$=15000 MOD. No: TME-303 SER. No: 3 DATE: 2-13-65

SIMULATOR DIALS

TEST	P_{t7} "H_g / .22	$P_{\Delta 7}$ "H_g	P_a "H_g / 30.5	P_{t2} "H_g / 61	$P_{\Delta 2}$ "H_g / 16.3	DES. F_g 100's	IND. F_g 100's	IND. F_g MV	DES. F_n 100's	IND. F_n 100's	MEAS. F_n MV	DES. F_n/δ %	IND. F_n/δ %	OK
1	3.85	2.0[illegible]5	9.81	4.905	0	47	48	834	47	48	834	31.5	31.5	
2	5.54	[illegible]	9.81	4.905	0	94	92.7	1689	94	92.7	1689	62.5	62.5	
3	6.06	[illegible]	9.81	4.905	0	106	105	1930	106	105	1930	70.5	70	
4	6.155	3.741	9.81	4.905	0	111	108.9	2020	111	108.9	2020	74.0	73.5	
5	6.85	[illegible]	9.81	[illegible]	3.95	129.6	128	2360	96	93	1682	64.0	62.5	
6	2.04	1.3[illegible]	3.64	2.525	.[illegible]44	35.4	35	632	19	19	347	34.	34	
7	3.269	2.226	3.64	2.525	1.344	71	70	1272	48	49	902	86.	87	
8	3.584	2.413	3.64	2.525	1.47	80	78.5	1435	56	57	1045	100.5	103	
9	.891	.5557	1.428	.990	.276	16	16	29.4	9.4	9.1	169	43.	40.5	
10	1.419	1.023	1.428	.990	.601	32	32	587	23	23	427	105.5	105.5	
11	1.515	1.041	1.428	.990	.632	34.6	34.2	628	25	25.2	462	114.5	115.5	
			Allowed:				±3% or ±1.0			±4% or ±1.0			±4% / ±6%	

DATA TAKEN AFTER IMPACT TEST

DATE 2/13/65 Time 11:15 A.M.

ACCEPTED ✓

REJECTED _____

PLATE 1223

TEST RECORD A3D NET THRUST SYSTEM

REF: PLATE No. 1155

TESTER: R.S. Hoy

(Based on: A_7=464, A_2=685, $\frac{100\%F_n}{\delta}$=15000 MOD. No: TME-303 SER. No: 3 DATE: 1.19.65

SIMULATOR DIALS

TEST	P_{t7} "H_g .22	$P_{\Delta 7}$ "H_g 30.5	P_a "H_g 30.5	P_{t2} "H_g 61	$P_{\Delta 2}$ "H_g 16.3	DES. F_g 100's	IND. F_g 100's	IND. F_g MV	DES. F_n 100's	IND. F_n 100's	MEAS. F_n MV	DES. F_n/δ %	IND. F_n/δ %	OK
1	3.35	2.4[illegible]	9.81	4.905	0	47	47.2	837	47	47.3	837	31.5	32	
2	5.54	4.37	9.81	4.905	0	94	93.1	1627	94	93.1	1627	62.5	63.	
3	6.0[illegible]	4.8[illegible]	9.81	4.905	0	106	105.2	1843	106	105.2	1844	70.5	71	
4	6.155	3.741	9.81	4.905	0	111	108.9	1912	111	108.9	1912	74.0	74.5	
5	6.83	5.17	9.81	5.813	3.05	129.6	127.6	2235	96	95.2	1642	64.0	64.5	
6	2.04	1.5[illegible]	3.64	2.525	.644	35.4	35.0	609	19	19.7	350	34.	34.5	
7	3.269	2.236	3.64	2.525	1.344	71	70.5	1212	48	49.7	864	86.	88.5	
8	3.584	2.413	3.64	2.525	1.47	80	78.2	1370	56	57	997	100.5	103	
9	.891	.5[illegible]	1.428	.990	.276	16	15.9	285	9.4	9.0	170	43.	41.5	
10	1.419	1.023	1.428	.990	.601	32	32.1	560	23	23.1	407	105.5	105	
11	1.515	1.041	1.428	.990	.632	34.6	34.3	602	25	25.6	449	114.5	115.5	
			Allowed:				±3% or ±1.0			±11% or ±1.0			±4% / ±6%	

ACCEPTED ✓

REJECTED _____

DATA TAKEN BEFORE LIFE TESTING

DATE 1/19/65 Time 3:00 P.M.

PLATE 1223

TEST RECORD A3D NET THRUST SYSTEM

REF: PLATE No. 1155

TESTER: [illegible]

(Based on: A_7=464, A_2=685, $\frac{100\%F_n}{\delta}$=15000

MOD. No: TME-303 SER. No: 3 DATE: 2/27/65

* after environmental and life tests - no readjustments necessary.

SIMULATOR DIALS

TEST	P_{t7} "H_g / .22	$P_{\Delta 7}$ "H_g / 30.5	P_a "H_g / 30.5	P_{t2} "H_g / 61	$P_{\Delta 2}$ "H_g / 16.3	DES. F_g 100's	IND. F_g 100's ↓ ↑	IND. F_g MV ↓ ↑	DES. F_n 100's	IND. F_n 100's ↓ ↑	MEAS. F_n MV ↓ ↑	DES. F_n/δ %	IND. F_n/δ % ↓ ↑	OK
1	3.85	2.095	9.81	4.905	0	47	48.0/48.2	839/840	47	48.0/48.2	839/840	31.5	32.5/31.5	
2	5.54	3.37	9.81	4.905	0	94	93.0/93.2	1630/1630	94	93.0/93.2	1630/1630	62.5	63.0/62.0	
3	6.06	3.567	9.81	4.905	0	106	105.5/105.2	1840/1840	106	105.5/105.2	1840/1840	70.5	72.0/72.0	
4	6.155	3.741	9.81	4.905	0	111	109.0/108.9	1910/1900	111	109.0/108.9	1910/1900	74.0	74.5/74.5	
5	6.85	4.17	9.81	5.818	3.05	129.6	127.0/127.0	2230/2230	96	94.5/93.5	1640/1620	64.0	64.0/64.0	
6	2.04	1.308	3.64	2.525	.644	35.4	35.0/35.1	610/615	19	20.0/20.0	[illegible]	34.	35.5/36.0	
7	3.269	2.226	3.64	2.525	1.344	71	70.0/70.0	1210/1220	48	49.5/50.0	861/865	86.	89.0/89.0	
8	3.584	2.413	3.64	2.525	1.47	80	79.0/78.2	1380/1370	56	58.0/57.5	1000/1000	100.5	105.0/105.0	
9	.891	.5557	1.428	.990	.276	16	16.0/15.9	285/283	9.4	9.0/9.1	171/172	43.	41.0/41.5	
10	1.419	1.023	1.428	.990	.607	32	32.0/32.1	556/560	23	23.0/23.2	406/408	105.5	105.0/105.5	
11	1.515	1.041	1.428	.990	.633	34.6	34.5/34.5	604/604	25	25.5/25.8	447/449	114.5	116.0/117.0	
			Allowed:				±3% or ±1.0			±4% or ±1.0			±4%	

DATA TAKEN AFTER LIFE TESTING

DATE 2/27/65 Time 4:30 P.M.

ACCEPTED ✓

REJECTED _____

4.0 ENVIRONMENTAL TEST DATA TAKEN ON TRANSMITTERS AND INDICATORS SUPPLIED ON THE AIR FORCE CONTRACT AF33 657-9589

APPENDIX IV

This appendix consists of the following drawings which are included herewith and constitute part of this Test Report.

Quantity	Drawing	Title
10	300075	Test Record, AEK-4(200117) Indicator
12	300076	Test Record, TRK-52-1 (300015-2) XMTR
12	300079	Test Record, TRK-52-1 (300015-2) XMTR

5.0 SUPPLEMENTARY INFORMATION

5.1 Specific Sensitivity and Response Time Data

Although qualitative data only was noted on Serial Numbers 1,2, and 3 of the TME-303 system and reported above in paragraphs 1.2.1.3 and 1.2.1.4, quantitative data has been taken on a similar unit having identical response and is herewith included.

5.1.1 Sensitivity (Unidirectional "Stiction")

Gross: 35 lbs

Net: 26 lbs

Percent: .4%

5.1.2 Response Time for 100% change or 10,800 lbs change thrust

Gross or Net: 0.65 sec

Percent: 1.75 sec

5.1.3 Response Time for 20% change or 2000 lbs change in thrust

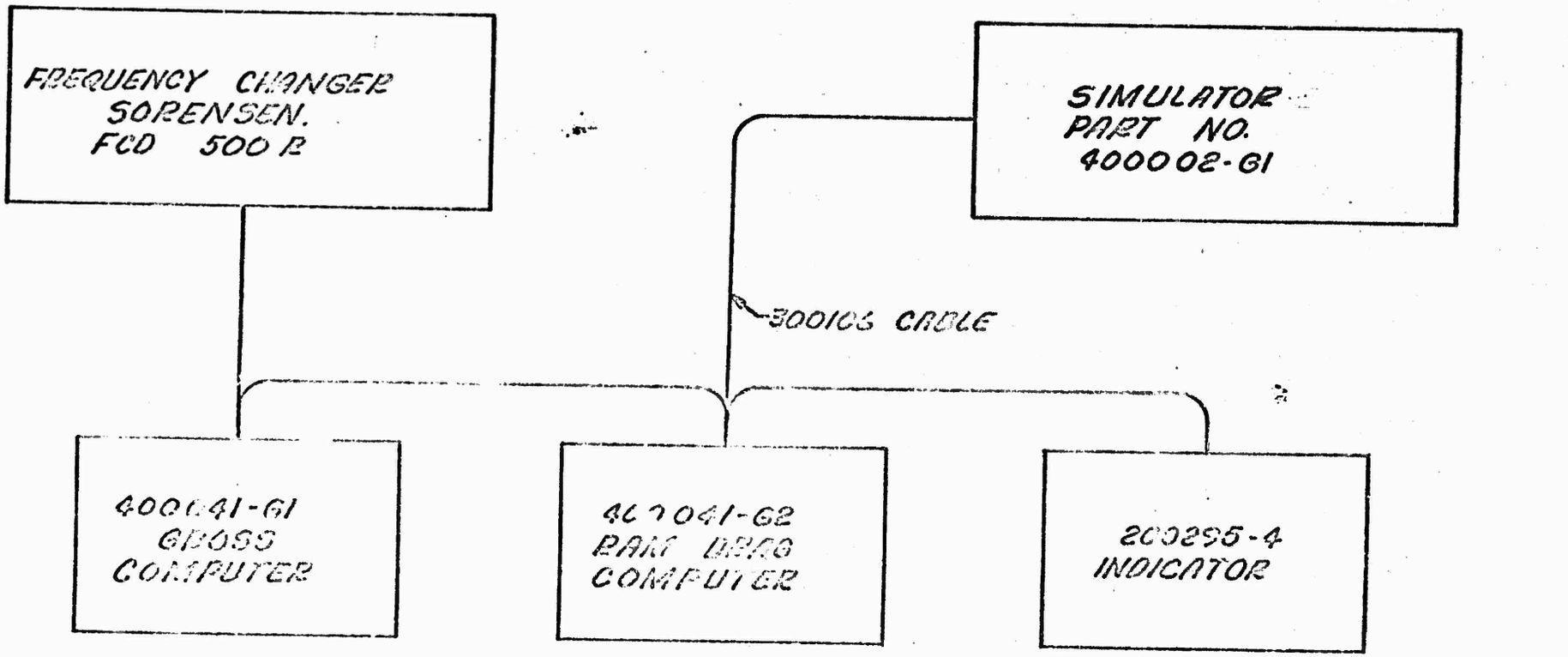
Gross or Net: 0.22 sec

Percent: 0.35 sec

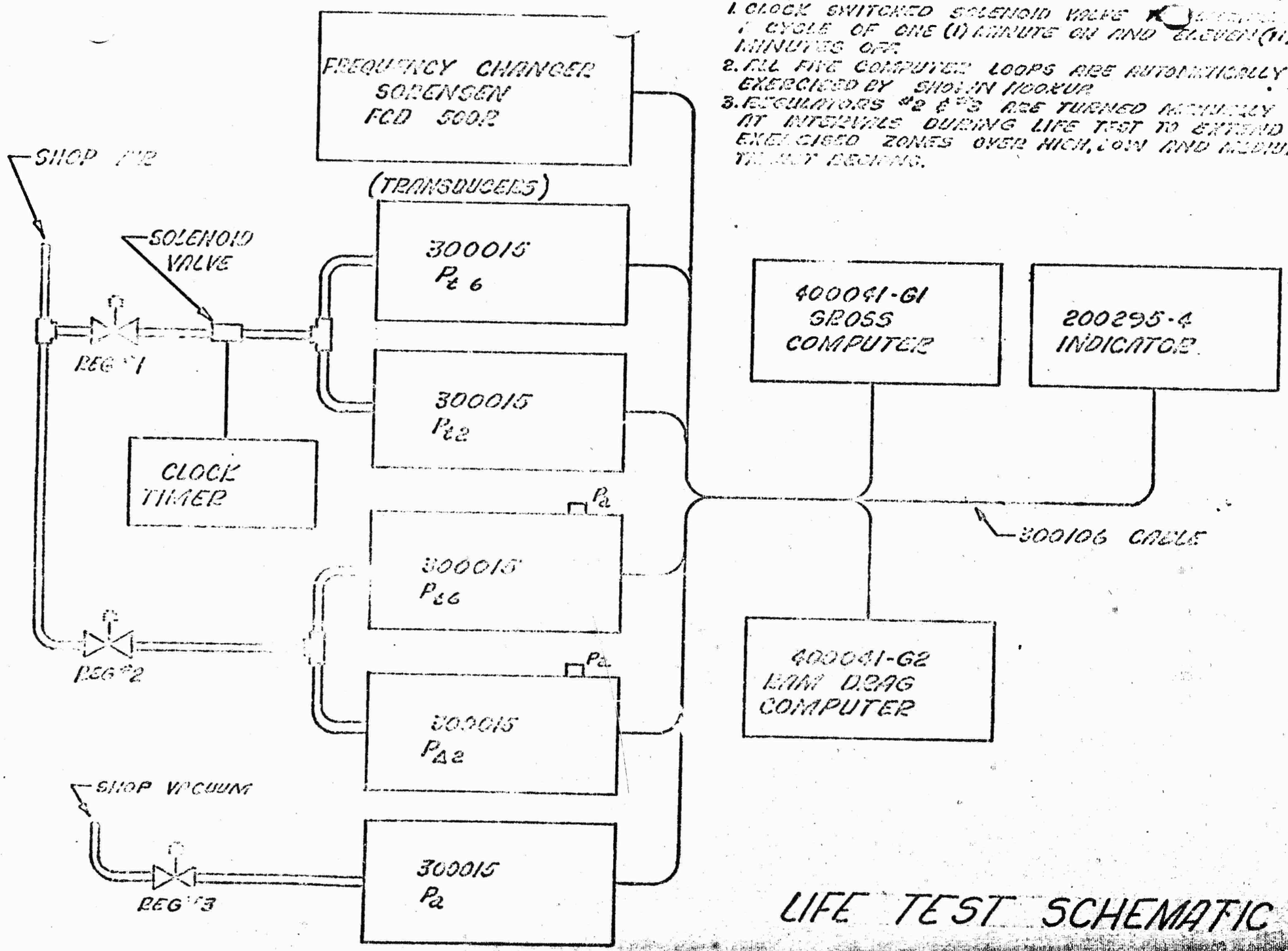
5.2 Setup Schematics

The following noted setup schematics included herewith apply to the paragraphs noted.

Paragraphs	Test	Schematic
1.2.1.1 & 1.2.2.1	Scale error	Plate 1269
1.2.1.2 & 1.2.2.2	Friction error	Plate 1269
1.2.2.3 & 1.2.2.3	Sensitivity	Plate 1269
1.2.1.4 & 1.2.1.4	Response Time	Plate 1269
1.2.2.5	Environmental Tests	Plate 1269
1.2.2.6	Life Tests	Plate 1270



BENCH TEST SCHEMATIC



NOTE:

1. CLOCK SWITCHED SOLENOID VALVE [illegible] 1 CYCLE OF ONE (1) MINUTE ON AND ELEVEN (11) MINUTES OFF.
2. ALL FIVE COMPUTER LOOPS ARE AUTOMATICALLY EXERCISED BY SHOP IN HOOKUP.
3. REGULATORS #2 & #3 ARE TURNED MANUALLY AT INTERVALS DURING LIFE TEST TO EXTEND EXERCISED ZONES OVER HIGH, LOW AND MEDIUM [illegible] SETTINGS.

LIFE TEST SCHEMATIC

PLATE II [illegible]

5.3 Friction Error Test Comments

The friction error noted in paragraphs 1.2.1.2 and 1.2.2.2 is really friction plus backlash and was obtained by carefully approaching each test setting on the Telectro-Mek Part No. 400002-G1 Simulator first from the high side without overshoot, then later approaching the same settings from the low side without overshoot. The sensitivity test, on the other hand, was unidirectional and indicates friction (stiction) without backlash.. None of the system was tapped or dithered during these tests so that this test was truly a worst case condition.. Less error will be demonstrated in actual use.

5.4 Indicator Comments

The Indicator supplied under this contract is TMI Part No. 200295 and differs from the AEK-4 Part No. 700014 in that red lighting was required for this contract whereas the AEK-4 used white lighting. It was also found necessary to use diffuser block lighting, rather than the wedge lighting used in the 700014, in order to fully meet the lighting specifications. In the course of making such changes to accomodate the new lighting the following new parts were designed for the 200295 and constitute the differences between Part No. 200295 Indicator and Part No. 700014 Indicator.

Part No.	Description
300100	Dial, Indicator
100161	Shaft Flexible
200300	Spacer Offset

Part No.	Description
200286	Terminal Board, Indicator
200283	Spacer, Dial Face
200281	Post, Spacer, Front
200278	Shaft, Bearing Support

All other parts, i.e. counter, synchro, gearbox, motor, amplifier, solenoid, potentiometer, can, connector and other mechanical parts are equivalent to those used in the AEK-4 Part No. 700014.

DATA TAKEN AT HIGH TEMP

DATE: 4/12/64 TIME: 9:00 AM [illegible] [illegible]: Richard D Shoop

NO.	ADJUST:	TEMP. °C	LINE VOLTS 400 CPS	[illegible] VOLTS	[illegible]-26-3	[illegible]-26-3 Thrust	[illegible]-26-3 NORMAL FLAG
3.3.1	Voltage	71	115	115		0	0
3.3.2	θ &	X	115	115	[illegible]	0	0
3.3.3	F_c	X	X	115	5.0	0	0
3.3.4	"	X	X	115	4.0	0	0
3.3.5	"	X	X	115	3.0	0	0
3.3.6	"	X	X	115	2.0	0	0
3.3.7	"	X	X	115	1.0	0	0
3.3.8	"	X	X	115	0.0	0	0
3.3.9	"	X	X	115	1.0	0	0
3.3.10	"	X	X	115	2.0	0	0
3.3.11	"	X	X	115	3.0	0	0
3.3.12	"	X	X	115	4.0	0	0
3.3.13	"	X	X	115	5.0	0	0
3.3.14	"	71	115	115	6.0	0	0
3.3.15	H & Voltage	71	115	115		300°	0
3.3.16	H_p	X	X	115		250°	0
3.3.17	"	X	X	115		200°	0
3.3.18	"	X	X	115		150°	0
3.3.19	"	X	X	115		100°	0
3.3.20	"	X	X	115		50°	0
3.3.21	"	X	X	115		0°	0
3.3.22	"	X	X	115		50°	0
3.3.23	"	X	X	115		100°	
3.3.24	"	X	X	115		150°	
3.3.25	"	X	X	115		200°	
3.3.26	"	X	X	115		250	
3.3.27	"	71	115	115		300°	
3.3.28	[illegible]	71	[illegible]	115		0	0
3.3.29	Zero [illegible]		X	115		0	+1 MILL A
3.3.30	"		X	115		0	-1 MILL A
3.3.31	[illegible]	71	82	82		0	
3.3.32			21	21		0	

4

ACCEPTED ✓

REJECTED ☐

INSPECTOR: [signature]

Thrust 000	AEK-4 Thrust	AEK-4 NORMAL FLAG	AEK-4 OFF FLAG	TH[illegible]	SCALE ERROR	FRICTION ERROR	LIMITS
X	X	X	✓		[illegible]	X	
[illegible]	X	X	✓	9[illegible]00	0	X	[illegible]00 lbs 2[illegible]±5°C
[illegible]0	X	X	✓	8[illegible]	0	X	[illegible] lbs 71±2°C
[illegible]4	X	X	✓	6[illegible]	0		
[illegible]8	X	X	✓	4[illegible]00	0		[illegible]00 lbs -54±2°C
[illegible]2	X	X	✓	32[illegible]	0	X	"
[illegible]6	X	X	✓	1600	0	X	"
0	X	X	✓		0	X	"
16	X	X	✓	1600	0	0	[illegible]iction error limits = [illegible] scale error limits
32	X	X	✓	3[illegible]0	0	0	
48	X	X	✓	4[illegible]	0	0	
64	X	X	✓	6[illegible]	0	0	"
80	X	X	✓	8[illegible]	0	0	"
96	X		✓	9[illegible]	0	0	"
X	120	X	✓	[illegible]%	0	X	1[illegible]25±5°C
X	100	X	✓	[illegible]%	0	X	[illegible]71±2°C
X	80		✓	[illegible]%	0	X	[illegible]-54±2°C
X	60	X	✓		0	X	"
X	40	X	✓		0	X	"
X	20		✓		0	X	"
X	0		✓		0	X	"
X	20		✓		[illegible]	0	[illegible]iction [illegible]or limits [illegible] scale [illegible]ror limits
X	40		✓	[illegible]%	0	0	
X	60	X	✓	[illegible]0%	0	0	
X	80	X	✓	[illegible]0%	0	0	
X	100		✓	[illegible]00%	0	0	
X	120		✓	120%	0	0	
X	X		✓		0		.100ua
X	X		✓		0		
X	X		✓		0		
X	X					X	[illegible] 100 VAC
X	X						[illegible] 15 [illegible]

TELECTRO-MEK, INC.

TEST RECORD, AEK-4 (~~200117~~) 700014 INDICATOR

300075

B

DATA TAKEN AFTER HIGH TEMP

DATE: 4/12/64 TIME: 10:00 AM IND. SN: 3 TESTED: [illegible]

TEST:	ADJUST:	TEMP. °C	LINE VOLTS @ 400 CPS	RMS VTVM VOLTS	EGK-26-3 °/s	EGK-26-3 Thrust	EGK-26-3 NORMAL FLAG
3.3.1	Voltage	25	115	115	0	0	0
3.3.2	E_g	X	115	115	6.0	0	0
3.3.3	E_g	X	X	115	5.0	0	0
3.3.4	"	X	X	115	4.0	0	0
3.3.5	"	X	X	115	3.0	0	0
3.3.6	"	X	X	115	2.0	0	0
3.3.7	"	X	X	115	1.0	0	0
3.3.8	"	X	X	115	0.0	0	0
3.3.9	"	X	X	115	1.0	0	0
3.3.10	"	X	X	115	2.0	0	0
3.3.11	"	X	X	115	3.0	0	0
3.3.12	"	X	X	115	4.0	0	0
3.3.13	"	X	X	115	5.0	0	0
3.3.14	"	25	115	115	6.0	0	0
3.3.15	E_g Voltage	25	115	115	0	300°	0
3.3.16	E_g	X	X	115		250°	0
3.3.17	"	X	X	115		200°	0
3.3.18	"	"	"	115		150°	"
3.3.19	"	"	"	115		100°	"
3.3.20	"	"	"	115		50°	"
3.3.21	"	"	"	115		0°	"
3.3.22	"	"	"	115		50°	"
3.3.23	"	X	X	115		100°	"
3.3.24	"	X	X	115		150°	"
3.3.25	"	X	X	115		200°	"
3.3.26	"	X	X	115		250	0
3.3.27	"	25	"	115		300°	0
3.3.28	[illegible] & Voltage	25	115	115		0	0
3.3.29	Zero [illegible]	X	X	115	0	0	+1 MILLA
3.3.30	"	"	X	115	0	0	-1 MILLA
3.3.31	Voltage	25	83	83	0	0	
3.3.32	"	X	20	20	0	0	

A

ACCEPTED ☑

REJECTED ☐

INSPECTOR: [signature]

AEK-4 Lbs Thrust X100	AEK-4 % Thrust	AEK-4 NORMAL FLAG	AEK-4 OFF FLAG	THEORETICAL	SCALE ERROR	FRICTION ERROR	LIMITS
X	X	X	✓	X	X	X	X
96	X	X	✓	9600	0	X	±300 lbs @25±5°C
80	X	X	✓	8000	0	X	±450 lbs
64	X	X	✓	6400	0	X	@71±2°C
48	X	X	✓	4800	0	X	±600 lbs @-54±2°C
32	X	X	✓	3200	0	X	"
16	X	X	✓	1600	0	X	"
0	X	X	✓	0	0	X	"
16	X	X	✓	1600	0	0	Friction
32	X	X	✓	3200	0	0	error limits
48	X	X	✓	4800	0	0	= ½ scale error limits
64	X	X	✓	6400	0	0	"
80	X	X	✓	8000	0	0	"
96	X	X	✓	9600	0	0	"
X	120	X	✓	120%	0	X	±1%@25±5°C
X	100	X	✓	100%	0	X	±1½%@71±2°C
X	80	X	✓	80%	0	X	±2%@-54±2°C
X	60	X	✓	60%	0	X	"
X	40	X	✓	40%	0	X	"
X	20	X	✓	20%	0	X	"
X	0	X	✓	0%	0	X	"
X	20	X	✓	20%	0	0	Friction
X	40	X	✓	40%	0	0	error limits
X	60	X	✓	60%	0	0	= ½ scale error limits
X	80	X	✓	80%	0	0	"
X	100	X	✓	100%	0	0	"
X	120	X	✓	120%	0	0	"
X	X	Normal	✓	0	0	X	±100ua
X	X	Green	✓	[illegible]	0	X	"
X	X	Yellow	✓	[illegible]	0	X	"
X	X	X	Just Drop	X	X	X	Under 100 VAC
X	X	X	Just Rise	X	X	X	Over 15 VAC

TELECTRO-MEK, INC. 300075

TEST RECORD, AEK-4 (~~200117~~) INDICATOR 700014 B

DATA TAKEN AFTER LOW TEMP @ ROOM.

DATE: 4/14/64 TIME: 8:00AM IND. SN: 3 TESTER: RDThompson

TEST:	ADJUST:	TEMP. °C	LINE VOLTS @ 400 CPS	RMS VTVM VOLTS	ECK-26-3 F_g	ECK-26-3 % Thrust	ECK-26-3 NORMAL FLAG
3.3.1	Voltage	25	115	115	0	0	0
3.3.2	F_g &	X	118	115	6.0	0	0
3.3.3	F_g	X	X	115	5.0	0	0
3.3.4	"	X	X	115	4.0	0	0
3.3.5	"	X	X	115	3.0	0	0
3.3.6	"	X	X	115	2.0	0	0
3.3.7	"	X	X	115	1.0	0	0
3.3.8	"	X	X	115	0.0	0	0
3.3.9	"	X	X	115	1.0	0	0
3.3.10	"	X	X	115	2.0	0	0
3.3.11	"	X	X	115	3.0	0	0
3.3.12	"	X	X	115	4.0	0	0
3.3.13	"	X	X	115	5.0	0	0
3.3.14	"	25	115	115	6.0	0	0
3.3.15	H_p & Voltage	25	115	115	0	300°	0
3.3.16	H_p	X	X	115	0	250°	0
3.3.17	"	X	X	115	0	200°	0
3.3.18	"	X	X	115	0	150°	0
3.3.19	"	X	X	115	0	100°	0
3.3.20	"	X	X	115	0	50°	0
3.3.21	"	X	X	115	0	0°	0
3.3.22	"	X	X	115	0	50°	0
3.3.23	"	X	X	115	0	100°	0
3.3.24	"	X	X	115	0	150°	0
3.3.25	"	X	X	115	0	200°	0
3.3.26	"	X	X	115	0	250	0
3.3.27	"	25	115	115	0	300°	0
3.3.28	Zero Adj & Voltage	25	115	115	0	0	0
3.3.29	Zero Adj	X	X	115	0	0	+ 1 Milli A
3.3.30	"	X	X	115	0	0	- 1 Milli A
3.3.31	Voltage	25	83	83	0	0	0
3.3.32	"	X	20	20	0	0	0

A

ACCEPTED ☑
REJECTED ☐

INSPECTOR: [signature]

AEK-4 Thrust 100	AEK-4 % Thrust	AEK-4 NORMAL FLAG	AEK-4 OFF FLAG	THEOR-ETICAL	SCALE ERROR	FRICTION ERROR	LIMITS
X	X	X		X	X	X	X
96	X	X	✓	9600	0	X	±300 lbs @25±5°C
80	X	X	✓	8000	0	X	±450 lbs @71±2°C
64	X	X	✓	6400	0	X	±600 lbs @-54±2°C
48	X	X	✓	4800	0	X	"
32	X	X	✓	3200	0	X	"
16	X	X	✓	1600	0	X	"
0	X	X	✓	0	0	X	"
16	X	X	✓	1600	0	0	Friction error limits = ½ scale error limits
32	X	X	✓	3200	0	0	"
48	X	X	✓	4800	0	0	"
64	X	X	✓	6400	0	0	"
80	X	X	✓	8000	0	0	"
96	X	X	✓	9600	0	0	"
X	120	X	✓	120%	0	X	±1½% @25±5°C
X	100	X	✓	100%	0	X	±1½% @71±2°C
X	80	X	✓	80%	0	X	±2% @-54±2°C
X	60	X	✓	60%	0	X	"
X	40	X	✓	40%	0	X	"
X	20	X	✓	20%	0	X	"
X	0	X	✓	0%	0	X	"
X	20	X	✓	20%	0	0	Friction error limits = ½ scale error limits
X	40	X	✓	40%	0	0	"
X	60	X	✓	60%	0	0	"
X	80	X	✓	80%	0	0	"
X	100	X	✓	100%	0	0	"
X	120	X	✓	120%	0	0	"
X	X	Normal	✓	0	0	X	±100Ω
X	X	Green	✓	+1.0 MA	0	X	"
X	X	Yellow	✓	-1.0 MA	0	X	"
X	X	X	Just Lite		X	X	Under 100 VAC
X	X	X	Just Lite		X	X	Over 15 VAC

TELECTRO-MEK, INC. 300075

TEST RECORD, AEK-4 (200117) INDICATOR

700017 B

DATA TAKEN AFTER VIBRATION

DATE: 4/14/64 TIME: 12:30AM IND. SN: 3 TESTER: RDThompson

TEST:	ADJUST:	TEMP. °C	LINE VOLTS @ 400 CPS	RMS VTVM VOLTS	ECK-26-3 F_g	ECK-26-3 % Thrust	ECK-26-3 NORMAL FLAG
3.3.1	Voltage	25	115	115	0	0	0
3.3.2	F_g &	X	115	115	6.0	0	0
3.3.3	P_g	X	X	115	5.0	0	0
3.3.4	"	X	X	115	4.0	0	0
3.3.5	"	X	X	115	3.0	0	0
3.3.6	"	X	X	115	2.0	0	0
3.3.7	"	X	X	115	1.0	0	0
3.3.8	"	X	X	115	0.0	0	0
3.3.9	"	X	X	115	1.0	0	0
3.3.10	"	X	X	115	2.0	0	0
3.3.11	"	X	X	115	3.0	0	0
3.3.12	"	X	X	115	4.0	0	0
3.3.13	"	X	X	115	5.0	0	0
3.3.14	"	25	115	115	6.0	0	0
3.3.15	H_p & Voltage	25	115	115	0	300°	0
3.3.16	H_p	X	X	115	0	250°	0
3.3.17	"	X	X	115	0	200°	0
3.3.18	"	X	X	115	0	150°	0
3.3.19	"	X	X	115	0	100°	0
3.3.20	"	X	X	115	0	50°	0
3.3.21	"	X	X	115	0	0°	0
3.3.22	"	X	X	115	0	50°	0
3.3.23	"	X	X	115	0	100°	0
3.3.24	"	X	X	115	0	150°	0
3.3.25	"	X	X	115	0	200°	0
3.3.26	"	X	X	115	0	250	0
3.3.27	"	25		115	0	300°	0
3.3.28	Zero Adj & Voltage	25	115	115	0	0	0
3.3.29	Zero Adj	X	X	115	0	0	+1 MILLA
3.3.30	"	X	X	115	0	0	-1 MILLA
3.3.31	Voltage	25	83	83	0	0	0
3.3.32	"	X	20	20	0	0	0

A

ACCEPTED ☑
REJECTED ☐
INSPECTOR: [signature]

AEK-4 % Thrust 100	AEK-4 % Thrust	AEK-4 NORMAL FLAG	AEK-4 OFF FLAG	THEOR-ETICAL	SCALE ERROR	FRICTION ERROR	LIMITS
X	X	X	✓		X	X	X
96	X	X	✓	9600	0	X	±300 lbs @25±5°C
80	X	X	✓	8000	0	X	±450 lbs @71±2°C
64	X	X	✓	6400	0	X	±600 lbs @-54±2°C
48	X	X	✓	4800	0	X	"
32	X	X	✓	3200	0	X	"
16	X	X	✓	1600	0	X	"
0	X	X	✓	0	0	X	"
16	X	X	✓	1600	0	0	Friction error limits = ½ scale error limits
32	X	X	✓	3200	0	0	"
48	X	X	✓	4800	0	0	"
64	X	X	✓	6400	0	0	"
80	X	X	✓	8000	0	0	"
96	X	X	✓	9600	0	0	"
X	120	X	✓	120%	0	X	±1%@25±5°C
X	100	X	✓	100%	0	X	±1½%@71±2°C
X	80	X	✓	80%	0	X	±2%@-54±2°C
X	60	X	✓	60%	0	X	"
X	40	X	✓	40%	0	X	"
X	20	X	✓	20%	0	X	"
X	0	X	✓	0%	0	X	"
X	20	X	✓	20%	0	0	Friction error limits = ½ scale error limits
X	40	X	✓	40%	0	0	"
X	60	X	✓	60%	0	0	"
X	80	X	✓	80%	0	0	"
X	100	X	✓	100%	0	0	"
X	120	X	✓	120%	0	0	"
X	X	Normal	✓		0	X	±100Ω
X	X	Green	✓	[illegible]	0	X	"
X	X	Yellow	✓	[illegible]	0	X	"
X	X	X	Just Drop	X	X	X	Under 100 VAC
X	X	X	Just Ride	X	X	X	Over 15 VAC

TELECTRO-MEK, INC. 300075

TEST RECORD, AEK-4 (200117) INDICATOR

700014

B

DATA TAKEN AFTER TEMP-ALT

DATE: 4/9/64 TIME: 8:00 AM IND. SN: 3 TESTER: RD Thompson

TC:	ADJUST:	TEMP. °C	LINE VOLTS @ 400 CPS	RMS VTVM VOLTS	ECK-26-3 F_g	ECK-26-3 % Thrust	ECK-26-3 NORMAL FLAG
3.3.1	Voltage	25	115	115	0	0	0
3.3.2	F_g	X	115	115	6.0	0	0
3.3.3	F_g	X	X	115	5.0	0	0
3.3.4	"	X	X	115	4.0	0	0
3.3.5	"	X	X	115	3.0	0	0
3.3.6	"	X	X	115	2.0	0	0
3.3.7	"	X	X	115	1.0	0	0
3.3.8	"	X	X	115	0.0	0	0
3.3.9	"	X	X	115	1.0	0	0
3.3.10	"	X	X	115	2.0	0	0
3.3.11	"	X	X	115	3.0	0	0
3.3.12	"	X	X	115	4.0	0	0
3.3.13	"	X	X	115	5.0	0	0
3.3.14	"	25	115	115	6.0	0	0
3.3.15	H_p Voltage	25	115	115	0	300°	0
3.3.16	H_p	X	X	115	0	250°	0
3.3.17	"	X	X	115	0	200°	0
3.3.18	"	X	X	115	0	150°	0
3.3.19	"	X	X	115	0	100°	0
3.3.20	"	X	X	115	0	50°	0
3.3.21	"	X	X	115	0	0°	0
3.3.22	"	X	X	115	0	50°	0
3.3.23	"	X	X	115	0	100°	0
3.3.24	"	X	X	115	0	150°	0
3.3.25	"	X	X	115	0	200°	0
3.3.26	"	X	X	115	0	250	0
3.3.27	"	25	115	115	0	300°	0
3.3.28	Zero Adj & Voltage	25	115	115	0	0	0
3.3.29	Zero Adj	X	X	115	0	0	+1 MILLA
3.3.30	"	X	X	115	0	0	-1 MILLA
3.3.31	Voltage	25	83	83	0	0	0
3.3.32	"	X	20	20	0	0	0

A

ACCEPTED ☑

REJECTED ☐

INSPECTOR: [signature]

AEK-4 Use Thrust (100	AEK-4 % Thrust	ASK-4 NORMAL FLAG	AEK-4 OFF FLAG	THEORETICAL	SCALE ERROR	FRICTION ERROR	LIMITS
X	X	X		X	X	X	X
96	X	X	✓	9600	0	X	±300 lbs @25±5°C
80	X	X	✓	8000	0	X	±450 lbs @71±2°C
64	X	X	✓	6400	0	X	±600 lbs @-54±2°C
48	X	X	✓	4800	0	X	"
32	X	X	✓	3200	0	X	"
16	X	X	✓	1600	0	X	"
0	X	X	✓	0	0	X	"
16	X	X	✓	1600	0	0	Friction error limits = ½ scale error limits
32	X	X	✓	3200	0	0	"
48	X	X	✓	4800	0	0	"
64	X	X	✓	6400	0	0	"
80	X	X	✓	8000	0	0	"
96	X	X	✓	9600	0	0	"
X	120	X	✓	120%	0	X	±1[illegible] @25±5°C
X	100	X	✓	100%	0	X	±1[illegible] @71±2°C
X	80	X	✓	80%	0	X	±27[illegible] @-54±2°C
X	60	X	✓	60%	0	X	"
X	40	X	✓	40%	0	X	"
X	20	X	✓	20%	0	X	"
X	0	X	✓	0%	0	X	"
X	20	X	✓	20%	0	0	Friction error limits = ½ scale error limits
X	40	X	✓	40%	0	0	"
X	60	X	✓	60%	0	0	"
X	80	X	✓	80%	0	0	"
X	100	X	✓	100%	0	0	"
X	120	X	✓	120%	0	0	"
X	X	Normal	✓	[illegible]	0	X	±100 [illegible]
X	X	Green	✓	[illegible]	0		"
X	X	Yellow	✓	[illegible]	0		"
X	X	X	Just [illegible]		X	X	[illegible]der 100 VAC
X	X	X	Just [illegible]	X	X	X	[illegible]er 15 VAC

TELECTRO-MEK, INC. 300075

TEST RECORD, AEK-4 (200117) INDICATOR

700014 B

DATA TAKEN AFTER SHOCK

DATE: 4/12/64 TIME: 2:00 PM IND. SN: 3 TESTER: RG Thompson

TEST:	ADJUST:	TEMP. °C	LINE VOLTS 400 CPS	VTVM VOLTS	PCK-26-3 F_E	PCK-26-3 Thrust	PCK-26-3 NORMAL FLAG
3.3.1	Voltage	25	115	115	0	0	0
3.3.2	F_E	X	116	115	6.0	0	0
3.3.3	"	X	X	115	5.0	0	0
3.3.4	"	X	X	115	4.0	0	0
3.3.5	"	X	X	115	3.0	0	0
3.3.6	"	X	X	115	2.0	0	0
3.3.7	"	X	X	115	1.0	0	0
3.3.8	"	X	X	115	0.0	0	0
3.3.9	"	X	X	115	1.0	0	0
3.3.10	"	X	X	115	2.0	0	0
3.3.11	"	X	X	115	3.0	0	0
3.3.12	"	X	X	115	4.0	0	0
3.3.13	"	X	X	115	5.0	0	0
3.3.14	"	25	115	115	6.0	0	0
3.3.15	H_p Voltage	25	115	115	0	300°	0
3.3.16	H_p	X	X	115	0	250°	0
3.3.17	"	X	X	115	0	200°	0
3.3.18	"	X	X	115	0	150°	0
3.3.19	"	X	X	115	0	100°	0
3.3.20	"	X	X	115	0	50°	0
3.3.21	"	X	X	115	0	0°	0
3.3.22	"	X	X	115	0	50°	0
3.3.23	"	X	X	115	0	100°	0
3.3.24	"	X	X	115	0	150°	0
3.3.25	"	X	X	115	0	200°	0
3.3.26	"	X	X	115	0	250	0
3.3.27	"	25	115	115	0	300°	0
3.3.28	Zero Adj & Voltage	25	115	115	0	0	0
3.3.29	Zero Adj	X	X	115	0	0	+1 MILLA
3.3.30	"	X	X	115	0	0	-1 MILLA
3.3.31	Voltage	25	83	83	0	0	0
3.3.32	"	X	80	80	0	0	0

A

ACCEPTED ☑

REJECTED ☐ INSPECTOR: [signature]

AEK-4 Lbs Thrust X100	AEK-4 % Thrust	AEK-4 NORMAL FLAG	AEK-4 OFF FLAG	THEOR-ETICAL	SCALE ERROR	FRICTION ERROR	LIMITS
X	X	X		X	X	X	X
96	X	X	✓	9600	0	X	±300 lbs @25±5°C
86	X	X	✓	8000	0	X	±450 lbs @71±2°C
64	X	X	✓	6400	0	X	±600 lbs @-54±2°C
48	X	X	✓	4800	0	X	"
32	X	X	✓	3200	0	X	"
16	X	X	✓	1600	0	X	"
0	X	X	✓	0	0	X	"
16	X	X	✓	1600	0	0	Friction error limits = ½ scale error limits
32	X	X	✓	3200	0	0	"
48	X	X	✓	4800	0	0	"
64	X	X	✓	6400	0	0	"
80	X	X	✓	8000	0	0	"
96	X	X	✓	9600	0	0	"
X	120	X	✓	120%	0	X	±15@25±5°C
X	100	X	✓	100%	0	X	±11@71±2°C
X	80	X	✓	80%	0	X	±9@-54±2°C
X	60	X	✓	60%	0	X	"
X	40	X	✓	40%	0	X	"
X	20	X	✓	20%	0	X	"
X	0	X	✓	0%	0	X	"
X	20	X	✓	20%	0	0	Friction error limits = ½ scale error limits
X	40	X	✓	40%	0	0	"
X	60	X	✓	60%	0	0	"
X	80	X	✓	80%	0	0	"
X	100	X	✓	100%	0	0	"
X	120	"	✓	120%	0	0	"
X	X	Normal	✓	0	0	X	±100 Ω
X	X	Green	✓	[illegible]	0	X	"
X	X	Yellow	✓	[illegible]	0	X	"
X	X	X	Just [illegible]	X	X	X	Under 100 VAC
X	X	X	Just [illegible]	X	X	X	Over 1[illegible] VAC

TELECTRO-MEK, INC. 300075

TEST RECORD, AEK-4 (200117) INDICATOR B

700014

DATA TAKEN PRIOR TO SHOCK

DATE: 4/12/64 TIME: 11:00 AM IND. SN: 3 TESTER: RD Thompson

TEST:	ADJUST:	TEMP. °C	LINE VOLTS @ 400 CPS	RMS VTVM VOLTS	ECK-26-3 F_g	ECK-26-3 % Thrust	ECK-26-3 NORMAL FLAG
3.3.1	Voltage	25	115	115	0	0	0
3.3.2	F_g	X	115	115	6.0	0	0
3.3.3	F_E	X	X	115	5.0	0	0
3.3.4	"	X	X	115	4.0	0	0
3.3.5	"	X	X	115	3.0	0	0
3.3.6	"	X	X	115	2.0	0	0
3.3.7	"	X	X	115	1.0	0	0
3.3.8	"	X	X	115	0.0	0	0
3.3.9	"	X	X	115	1.0	0	0
3.3.10	"	X	X	115	2.0	0	0
3.3.11	"	X	X	115	3.0	0	0
3.3.12	"	X	X	115	4.0	0	0
3.3.13	"	X	X	115	5.0	0	0
3.3.14	"	25	115	115	6.0	0	0
3.3.15	H_K Voltage	25	115	115	0	300°	0
3.3.16	H_p	X	X	115	0	250°	0
3.3.17	"	X	X	115	0	200°	0
3.3.18	"	X	X	115	0	150°	0
3.3.19	"	X	X	115	0	100°	0
3.3.20	"	X	X	115	0	50°	0
3.3.21	"	X	X	115	0	0°	0
3.3.22	"	X	X	115	0	50°	0
3.3.23	"	X	X	115	0	100°	0
3.3.24	"	X	X	115	0	150°	0
3.3.25	"	X	X	115	0	200°	0
3.3.26	"	X	X	115	0	250	0
3.3.27	"	25	115	115	0	300°	0
3.3.28	Zero Adj [illegible]	25	115	115	0	0	0
3.3.29	Zero Adj	X	X	115	0	0	+1 Milli A
3.3.30		X	X	115	0	0	-1 Milli A
3.3.31	Voltage	25	83	83	0	0	0
3.3.32		X	20	20	0	0	0

A

ACCEPTED ☑

REJECTED ☐ INSPECTOR: [signature]

	AEK-4 Lbs Thrust X100	AEK-4 % Thrust	AEK-4 NORMAL FLAG	AEK-4 OFF FLAG	THEOR-ETICAL	SCALE ERROR	FRICTION ERROR	LIMITS
	X	X	X		X	X	X	X
	96	X	X	✓	9600	0	X	±300 lbs @25±5°C
	80	X	X	✓	8000	0	X	±450 lbs @71±2°C
	64	X	X	✓	6400	0	X	±600 lbs @-54±2°C
	48	X	X	✓	4800	0	X	"
	32	X	X	✓	3200	0	X	"
	16	X	X	✓	1600	0	X	"
	0	X	X	✓	0	0	X	"
	16	X	X	✓	1600	0	0	Friction error limits = ½ scale error limits
	32	X	X	✓	3200	0	0	"
	48	X	X	✓	4800	0	0	"
	64	X	X	✓	6400	0	0	"
	80	X	X	✓	8000	0	0	"
	96	X	X	✓	9600	0	0	"
	X	120	X	✓	120%	0	X	±1½% @25±5°C
	X	100	X	✓	100%	0	X	±1½% @71±2°C
	X	80	X	✓	80%	0	X	±2½% @-54±2°C
	X	60	X	✓	60%	0	X	"
	X	40	X	✓	40%	0	X	"
	X	20	X	✓	20%	0	X	"
	X	0	X	✓	0%	0	X	"
	X	20	X	✓	20%	0	0	Friction error limits = ½ scale error limits
	X	40	X	✓	40%	0	0	"
	X	60	X	✓	60%	0	0	"
	X	80	X	✓	80%	0	0	"
	X	100	X	✓	100%	0	0	"
	X	120	X	✓	120%	0	0	"
	X	X	Normal	✓	0	0	X	±100Ω
A	X	X	Green	✓	+1.111A	0	X	"
A	X	X	Yellow	✓	-1.111A	0	X	"
	X	X	X	Just Left	X	X	X	Under 100 VAC
	X	X	X	Just Right	X	X	X	Over 15 VAC

TELECTRO-MEK, INC.
TEST RECORD, AEK-4 (200117) INDICATOR 300075

700014 B

DATA TAKEN PRIOR TO TEMP-ALT

DATE: 4/6/64 TIME: 3:01 PM IND. SN: 3 TESTER: C.S. Thompson

TEST:	ADJUST:	TEMP. °C	LINE VOLTS @ 400 CPS	RMS VTVM VOLTS	ECK-26-3 F_g	ECK-26-3 % Thrust	ECK-26-3 NORMAL FLAG
3.3.1	Voltage	25	115	115	0	0	0
3.3.2	F_g "	X	116	115	6.0	0	0
3.3.3	F_g	X	X	115	5.0	0	0
3.3.4	"	X	X	115	4.0	0	0
3.3.5	"	X	X	115	3.0	0	0
3.3.6	"	X	X	115	2.0	0	0
3.3.7	"	X	X	115	1.0	0	0
3.3.8	"	X	X	115	0.0	0	0
3.3.9	"	X	X	115	1.0	0	0
3.3.10	"	X	X	115	2.0	0	0
3.3.11	"	X	X	115	3.0	0	0
3.3.12	"	X	X	115	4.0	0	0
3.3.13	"	X	X	115	5.0	0	0
3.3.14	"	25	115	115	6.0	0	0
3.3.15	H_R Voltage	25	115	115	0	300°	0
3.3.16	H_R	X	X	115	0	250°	0
3.3.17	"	X	X	115	0	200°	0
3.3.18	"	X	X	115	0	150°	0
3.3.19	"	X	X	115	0	100°	0
3.3.20	"	X	X	115	0	50°	0
3.3.21	"	X	X	115	0	0°	0
3.3.22	"	X	X	115	0	50°	0
3.3.23	"	X	X	115	0	100°	0
3.3.24	"	X	X	115	0	150°	0
3.3.25	"	X	X	115	0	200°	0
3.3.26	"	X	X	115	0	250	0
3.3.27	"	25	115	115	0	300°	0
3.3.28	Zero Adj & Voltage	25	115	115	0	0	0
3.3.29	Zero Adj	X	X	115	0	0	+1 Milli A
3.3.30	"	X	X	115	0	0	-1 Milli A
3.3.31	Voltage	25	83	83	0	0	0
3.3.32	"	X	20	20	0	0	0

A

ACCEPTED ☑

REJECTED ☐

INSPECTOR: [signature]

AEK-4 Lbs Thrust X100	AEK-4 % Thrust	AEK-4 NORMAL FLAG	AEK-4 OFF FLAG	THEORETICAL	SCALE ERROR	FRICTION ERROR	LIMITS
X	X	X		X	X	X	X
96	X	X	✓	9600	0	X	±300 lbs @25±5°C
80	X	X	✓	8000	0	X	±450 lbs @71±2°C
64	X	X	✓	6400	0	X	±600 lbs @-54±2°C
48	X	X	✓	4800	0	X	"
32	X	X	✓	3200	0	X	"
16	X	X	✓	1600	0	X	"
0	X	X	✓	0	0	X	"
16	X	X	✓	1600	0	0	Friction error limits = ½ scale error limits
32	X	X	✓	3200	0	0	"
48	X	X	✓	4800	0	0	"
64	X	X	✓	6400	0	0	"
80	X	X	✓	8000	0	0	"
96	X	X	✓	9600	0	0	"
X	120	X	✓	120%	0	X	±1% @25±5°C
X	100	X	✓	100%	0	X	±1½% @71±2°C
X	80	X	✓	80%	0	X	±2% @-54±2°C
X	60	X	✓	60%	0	X	"
X	40	X	✓	40%	0	X	"
X	20	X	✓	20%	0	X	"
X	0	X	✓	0%	0	X	"
X	20	X	✓	20%	0	0	Friction error limits = ½ scale error limits
X	40	X	✓	40%	0	0	"
X	60	X	✓	60%	0	0	"
X	80	X	✓	80%	0	0	"
X	100	X	✓	100%	0	0	"
X	120	X	✓	120%	0	0	"
X	X	Normal	✓	0	0	X	.100Ω2
X	X	Green	✓	+1.1KA	0	X	"
X	X	Yellow	✓	-1.1KA	0	X	"
X	X	X	Just Drop		X	X	Under 100 VAC
X	X	X	Just Rise	"	X	X	Over 15 VAC

TELECTRO-MEK, INC. 300075

TEST RECORD, AEK-4 ~~(200117)~~ INDICATOR 700014

B

DATA TAKEN PRIOR TO VIBRATION

DATE: 4/13/64 TIME: 11:30 AM IND. SN: 3 TESTER: RD Thompson

TEST:	ADJUST:	TEMP. °C	LINE VOLTS @ 400 CPS	RMS VTVM VOLTS	ECK-26-3 F_g	ECK-26-3 % Thrust	ECK-26-3 NORMAL FLAG
3.3.1	Voltage	25	115	115	0	0	0
3.3.2	F_g &	X	115	115	6.0	0	0
3.3.3	F_g	X	X	115	5.0	0	0
3.3.4	"	X	X	115	4.0	0	0
3.3.5	"	X	X	115	3.0	0	0
3.3.6	"	X	X	115	2.0	0	0
3.3.7	"	X	X	115	1.0	0	0
3.3.8	"	X	X	115	0.0	0	0
3.3.9	"	X	X	115	1.0	0	0
3.3.10	"	X	X	115	2.0	0	0
3.3.11	"	X	X	115	3.0	0	0
3.3.12	"	X	X	115	4.0	0	0
3.3.13	"	X	X	115	5.0	0	0
3.3.14	"	25	115	115	6.0	0	0
3.3.15	H_p & Voltage	25	115	115	0	300°	0
3.3.16	H_p	X	X	115	0	250°	0
3.3.17	"	X	X	115	0	200°	0
3.3.18	"	X	X	115	0	150°	0
3.3.19	"	X	X	115	0	100°	0
3.3.20	"	X	X	115	0	50°	0
3.3.21	"	X	X	115	0	0°	0
3.3.22	"	X	X	115	0	50°	0
3.3.23	"	X	X	115	0	100°	0
3.3.24	"	X	X	115	0	150°	0
3.3.25	"	X	X	115	0	200°	0
3.3.26	"	X	X	115	0	250	0
3.3.27	"	25		115	0	300°	0
3.3.28	Zero Adj & Voltage	25	115	115	0	0	0
3.3.29	Zero Adj	X	X	115	0	0	+1 MILLI A
3.3.30	"	X	X	115	0	0	-1 MILLI A
3.3.31	Voltage	25	23	23	0	0	0
3.3.32	"	X	20	20	0	0	0

A

ACCEPTED ☑

REJECTED ☐

INSPECTOR: [signature]

AEK-4 Lbs Thrust X100	AEK-4 % Thrust	AEK-4 NORMAL FLAG	AEK-4 OFF FLAG	THEOR-ETICAL	SCALE ERROR	FRICTION ERROR	LIMITS
X	X	X	✓	X	X	X	X
96	X	X	✓	9600	0	X	±300 lbs @25±5°C
80	X	X	✓	8000	0	X	±450 lbs @71±2°C
64	X	X	✓	6400	0	X	±600 lbs @-54±2°C
48	X	X	✓	4800	0	X	"
32	X	X	✓	3200	0	X	"
16	X	X	✓	1600	0	X	"
0	X	X	✓	0	0	X	"
16	X	X	✓	1600	0	0	Friction error limits = ½ scale error limits
32	X	X	✓	3200	0	0	"
48	X	X	✓	4800	0	0	"
64	X	X	✓	6400	0	0	"
80	X	X	✓	8000	0	0	"
96	X	X	✓	9600	0	0	"
X	120	X	✓	120%	0	X	±1% @25±5°C
X	100	X	✓	100%	0	X	±1½% @71±2°C
X	80	X	✓	80%	0	X	±2% @-54±2°C
X	60	X	✓	60%	0	X	"
X	40	X	✓	40%	0	X	"
X	20	X	✓	20%	0	X	"
X	0	X	✓	0%	0	X	"
X	20	X	✓	20%	0	0	Friction error limits = ½ scale error limits
X	40	X	✓	40%	0	0	"
X	60	X	✓	60%	0	0	"
X	80	X	✓	80%	0	0	"
X	100	X	✓	100%	0	0	"
X	120	X	✓	120%	0	0	"
X	X	Normal	✓	0	0	X	±100Ω
X	X	Green	✓	+[illegible]	0	X	"
X	X	Yellow	✓	-[illegible]	0	X	"
X	X	X	Just Drop		X	X	Under 100 VAC
X	X	X	Just Flag		X	X	Over 15 VAC

TELECTRO-MEK, INC. 300075

TEST RECORD, AEK-4 (~~200117~~) INDICATOR

700014 B

DATA TAKEN AT LOW TEMP

DATE: 4/14/64 TIME: 4:30AM IND. SN: 3 TESTER: W Thompson

TEST:	ADJUST:	TEMP. °C	LINE VOLTS @ 400 CPS	RMS VTVM VOLTS	ECK-26-3 F_g	ECK-26-3 % Thrust	ECK-26-3 NORMAL FLAG
3.3.1	Voltage	-54	115	115	0	0	0
3.3.2	F_g &	X	115	115	6.0	0	0
3.3.3	F_g	X	X	115	5.0	0	0
3.3.4	"	X	X	115	4.0	0	0
3.3.5	"	X	X	115	3.0	0	0
3.3.6	"	X	X	115	2.0	0	0
3.3.7	"	X	X	115	1.0	0	0
3.3.8	"	X	X	115	0.0	0	0
3.3.9	"	X	X	115	1.0	0	0
3.3.10	"	X	X	115	2.0	0	0
3.3.11	"	X	X	115	3.0	0	0
3.3.12	"	X	X	115	4.0	0	0
3.3.13	"	X	X	115	5.0	0	0
3.3.14	"	-54	115	115	6.0	0	0
3.3.15	H_p & Voltage	-54	115	115	0	300°	0
3.3.16	H_p	X	X	115	0	250°	0
3.3.17	"	X	X	115	0	200°	0
3.3.18	"	X	X	115	0	150°	0
3.3.19	"	X	X	115	0	100°	0
3.3.20	"	X	X	115	0	50°	0
3.3.21	"	X	X	115	0	0°	0
3.3.22	"	X	X	115	0	50°	0
3.3.23	"	X	X	115	0	100°	0
3.3.24	"	X	X	115	0	150°	0
3.3.25	"	X	X	115	0	200°	0
3.3.26	"	X	X	115	0	250	0
3.3.27	"	-54	115	115	0	300°	0
3.3.28	Zero Adj Voltage	-54	115	115	0	0	0
3.3.29	Zero Adj	X	X	115	0	0	+1 Mill A
3.3.30	"	X	X	115	0	0	-1 Mill A
3.3.31	Voltage	-54	81	81	0	0	0
3.3.32	"	X	24	24	0	0	0

A

ACCEPTED ☑
REJECTED ☐

INSPECTOR: [signature]

AEK-4 Lbs Thrust X100	AEK-4 % Thrust	AEK-4 NORMAL FLAG	AEK-4 OFF FLAG	THEOR-ETICAL	SCALE ERROR	FRICTION ERROR	LIMITS
X	X	X	✓		X	X	X
96	X	X	✓	9600	0	X	±300 lbs @25±5°C
80	X	X	✓	8000	0	X	±450 lbs @71±2°C
64	X	X	✓	6400	0	X	±600 lbs @-54±2°C
48	X	X	✓	4800	0	X	"
32	X	X	✓	3200	0	X	"
16	X	X	✓	1600	0	X	"
0	X	X	✓		0	X	"
16	X	X	✓	1600	0	0	Friction error limits = ½ scale error limits
32	X	X	✓	3200	0	0	"
48	X	X	✓	4800	0	0	"
64	X	X	✓	6400	0	0	"
80	X	X	✓	8000	0	0	"
96	X	X	✓	9600	0	0	"
X	120	X	✓	120%	0	X	±1% @25±5°C
X	100	X	✓	100%	0	X	±1½% @71±2°C
X	80	X	✓	80%	0	X	±2% @-54±2°C
X	60	X	✓	60%	0	X	"
X	40	X	✓	40%	0	X	"
X	20	X	✓	20%	0	X	"
X	0	X	✓	0%	0	X	"
X	20	X	✓	20%		0	Friction error limits = ½ scale error limits
X	40	X	✓	40%	0	0	"
X	60	X	✓	60%	0	0	"
X	80	X	✓	80%	0	0	"
X	100	X	✓	100%	0	0	"
X	120	X	✓	120%	0	0	"
X	X	Normal	✓		0	X	±100Ω
X	X	Green	✓	+11.1LA	0	X	"
X	X	Yellow	✓	-11.1LA	0	X	"
X	X	X	Just Drop	X	X	X	Under 100 VAC
X	X	X	Just Rise	X	X	X	Over 15 VAC

TELECTRO-MEK, INC. 300075

TEST RECORD, AEK-4 (~~200117~~) INDICATOR 700014

8

DATA TAKEN AFTER – SAND, DUST, + SALT SPRAY

DATE: 5/13/64 TIME: 5:30AM XMTR SN: 1000 TESTER: [illegible]

TEST:	ADJUST:	TEMP. °C	LINE VOLTS @ 400 OPS	RMS VTVM VOLTS	MANOMETER "HG	BAROMETER "HG	TOTAL "HG
1.3.1	Pressure & Voltage	25	115	9	108.00	29.25	108
1.3.2	"	X	X	10	121.00	X	121.00
1.3.3	Pressure carefully	X	X	9	108.01	X	108.01
1.3.4	"	X	X	8	96.14	X	96.14
1.3.5	"	X	X	7	84.25	X	84.25
1.3.6	"	X	X	6	72.30	X	72.30
1.3.7	"	X	X	5	60.60	X	60.60
1.3.8	"	X	X	4	48.30	X	48.30
1.3.9	"	X	X	3	36.25	X	36.25
1.3.10	"	X	X	2	24.40	X	24.40
1.3.11	"	X	X	1	12.35	X	12.35
1.3.12	"	X	X	1	12.30	X	12.30
1.3.13	"	X	X	2	24.25	X	24.25
1.3.14	"	X	X	3	36.40	X	36.40
1.3.15	"	X	X	4	48.40	X	48.40
1.3.16	"	X	X	5	60.50	X	60.50
1.3.17	"	X	X	6	72.35	X	72.35
1.3.18	"	X	X	7	84.25	X	84.25
1.3.19	"	X	X	8	96.15	X	96.15
1.3.20	"	X	X	9	108.00	X	108.00
1.3.21	"	25	115	10	120.80		120.80

A

ACCEPTED [✓]

REJECTED [ ] INSPECTOR: [signature]

	THEORETICAL DEG	SCALE ERROR	LIMITS	NOTES	FRICTION ERROR	LIMITS	COMMENTS
	X	X	X	X	X	X	
	120	+1.00	X	X	X	X	
	108	+.01	±1.2" @ 25 ±5°C & 180±5°C, ±1.3" @ -54±2°C	Do not overshoot	X	X	
	96	+.14	"	"	X	X	
	84	+.25	"	"	X	X	
	72	+.30	"	"	X	X	
	60	+.60	"	"	X	X	
	48	+.30	"	"	X	X	
	36	+.25	"	"	X	X	
	24	+.40	"	"	X	X	
	12	+.35	"	"	X	X	
	12	+.30	"	"	.05	±.6" @ 25 ±5°C & 180±5°C, -54±2°C	
	24	+.25	"	"	.15	"	
	36	+.40	"	"	.15	"	
	48	+.40	"	"	.10	"	
	60	+.50	"	"	.10	"	
	72	+.35	"	"	.05	"	
	84	+.25	"	"	0	"	
	96	+.15	"	"	.01	"	
	108	0	"	"	.01	"	
	120	+.80	"	"	.20	"	

DATA TAKEN AT HIGH TEMPERATURE

DATE: 4/11/64 TIME: 7:00AM CNTR #: 1000 TESTER: RS Thompson

TEST:	ADJUST:	TEMP. °C	LINE VOLTS @ 400 CPS	RMS VTVM VOLTS	MANOMETER "HG	BAROMETER "HG	TOTAL "HG
1.3.1	Pressure & Voltage	180	115	9	108.00	29.15	108
1.3.2	"	X	X	10	120.45	X	120.45
1.3.3	Pressure carefully	X	X	9	108.30	X	108.30
1.3.4	"	X	X	8	96.40	X	96.40
1.3.5	"	X	X	7	84.50	X	84.50
1.3.6	"	X	X	6	72.35	X	72.35
1.3.7	"	X	X	5	60.35	X	60.35
1.3.8	"	X	X	4	48.35	X	48.35
1.3.9	"	X	X	3	36.40	X	36.40
1.3.10	"	X	X	2	24.60	X	24.60
1.3.11	"	X	X	1	12.70	X	12.70
1.3.12	"	X	X	1	12.70	X	12.70
1.3.13	"	X	X	2	24.50	X	24.50
1.3.14	"	X	X	3	36.20	X	36.20
1.3.15	"	X	X	4	48.10	X	48.10
1.3.16	"	X	X	5	60.15	X	60.15
1.3.17	"	X	X	6	72.10	X	72.10
1.3.18	"	X	X	7	84.20	X	84.20
1.3.19	"	X	X	8	96.15	X	96.15
1.3.20	"	X	X	9	108.15	X	108.15
1.3.21	"	180	115	10	120.20	29.15	120.20

A

ACCEPTED ☑

REJECTED ☐ INSPECTOR: _____

	THEOR-ETICAL DEG	SCALE ERROR	LIMITS	NOTES	FRICTION ERROR	LIMITS	COMMENTS
	X	X	X	X		X	
5	120	+.45	X	X		X	
0	108	+.30	±1.2" @ 25 ±5°C & 160±5°C, ±1.8" @ -54±2°C	Do not overshoot		X	
0	96	+.40	"	"		X	
0	84	+.50	"	"		X	
5	72	+.35	"	"		X	
5	60	+.35	"	"		X	
5	48	+.35	"	"		X	
0	36	+.40	"	"		X	
0	24	+.60	"	"		X	
0	12	+.70	"	"		X	
0	12	+.70	"	"	0	±.6" @ 25 ±5°C & 160±5°C, -54±2°C	
0	24	+.50	"	"	.10		
0	36	+.40	"	"	.10		
0	48	+.10	"	"	.20		
5	60	+.15	"	"	.25		
0	72	+.10	"	"	.20		
0	84	+.20	"	"	.30		
5	96	+.15	"	"	.25		
5	108	+.15	"	"	.15		
0	120	+.20	"	"	.25		

DATA TAKEN PRIOR TO SAND, DUST, + SALT SPRAY

ATE: 3/10/64 TIME: 5:00 PM XMTR SN: 1000 TESTER: R.D. Thompson

EST:	ADJUST:	TEMP. °C	LINE VOLTS @ 400 CPS	RMS VTVM VOLTS	MANOMETER "HG	BAROMETER "HG	TOTAL "HG
3.1	Pressure & Voltage	25	115	9	108.00	29.05	108
3.2	"	X	X	10	120.90	X	120.90
3.3	Pressure carefully	X	X	9	108.00	X	108.00
3.4	"	X	X	8	96.20	X	96.20
3.5	"	X	X	7	84.30	X	84.30
3.6	"	X	X	6	72.30	X	72.30
3.7	"	X	X	5	60.40	X	60.40
3.8	"	X	X	4	48.40	X	48.40
3.9	"	X	X	3	36.35	X	36.35
3.10	"	X	X	2	24.30	X	24.30
3.11	"	X	X	1	12.30	X	12.30
3.12	"	X	X	1	12.35	X	12.35
3.13	"	X	X	2	24.35	X	24.35
3.14	"	X	X	3	36.35	X	36.35
3.15	"	X	X	4	48.50	X	48.50
3.16	"	X	X	5	60.45	X	60.45
3.17	"	X	X	6	72.20	X	72.20
3.18	"	X	X	7	84.30	X	84.30
3.19	"	X	X	8	96.10	X	96.10
3.20	"	X	X	9	108.01	X	108.01
3.21	"	25	115	10	120.80	29.05	120.80

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ACCEPTED ☑

REJECTED ☐ INSPECTOR: [signature]

THEOR-ETICAL "IG	SCALE ERROR	LIMITS	NOTES	FRICTION ERROR	LIMITS	COMMENTS
X	X	X	X	X	X	
120	+.90	X	X	X	X	
108	0	±1.2" @ 25 ±5°C & 150±5°C, ±1.[illegible] -54±2°C	Do not overshoot	X	X	
96	+.20	"	"	X	X	
84	+.30	"	"	X	X	
72	+.30	"	"	X	X	
60	+.40	"	"	X	X	
48	+.40	"	"	X	X	
36	+.35	"	"	X	X	
24	+.30	"	"	X	X	
12	+.30	"	"	X	X	
12	+.35	"	"	.05	±.6" @ 25 ±5°C & 150±5°C, ±.9" -54±2°C	
24	+.35	"	"	.05	"	
36	+.35	"	"	0	"	
48	+.50	"	"	.10	"	
60	+.45	"	"	.05	"	
72	+.20	"	"	.10	"	
84	+.30	"	"	0	"	
96	+.10	"	"	.10	"	
108	+.01	"	"	.01	"	
120	+.80	"	"	.10	"	

DATA TAKEN PRIOR TO SHOCK

DATE: 4/12/64 TIME: 11:00AM XMTR SN: 1000 TESTER: RD Thompson

TEST:	ADJUST:	TEMP. °C	LINE VOLTS @ 400 CPS	RMS VTVM VOLTS	MANOMETER "HG	BAROMETER "HG	TOTAL "HG
1.3.1	Pressure & Voltage	25	115	9	108.00	29.05	108
1.3.2	"	X	X	10	120.30	X	120.30
1.3.3	Pressure carefully	X	X	9	108.35	X	108.35
1.3.4	"	X	X	8	96.40	X	96.40
1.3.5	"	X	X	7	84.45	X	84.45
1.3.6	"	X	X	6	72.50	X	72.50
1.3.7	"	X	X	5	60.55	X	60.55
1.3.8	"	X	X	4	48.50	X	48.50
1.3.9	"	X	X	3	36.50	X	36.50
1.3.10	"	X	X	2	24.40	X	24.40
1.3.11	"	X	X	1	12.30	X	12.30
1.3.12	"	X	X	1	12.25	X	12.25
1.3.13	"	X	X	2	24.40	X	24.40
1.3.14	"	X	X	3	36.35	X	36.35
1.3.15	"	X	X	4	48.40	X	48.40
1.3.16	"	X	X	5	60.35	X	60.35
1.3.17	"	X	X	6	72.30	X	72.30
1.3.18	"	X	X	7	84.35	X	84.35
1.3.19	"	X	X	8	96.30	X	96.30
1.3.20	"	X	X	9	108.20	X	108.20
1.3.21	"	25	115	10	120.20	29.05	120.20

A

ACCEPTED ☑

REJECTED ☐ INSPECTOR: [signature]

	THEOR-ETICAL TRG	SCALE ERROR	LIMITS	NOTES	FRICTION ERROR	LIMITS	COMMENTS
	X	X	X	X	X	X	
	120	±.30	X	X	X	X	
	108	±.35	±1.2" @ 25 ±5°C & 180±5°C, ±1.5" @ -54±2°C	Do not overshoot	X	X	
	96	±.40	"	"	X	X	
	84	±.45	"	"	X	X	
	72	±.50	"	"	X	X	
	60	±.55	"	"	X	X	
	48	±.50	"	"	X	X	
	36	±.50	"	"	X	X	
	24	±.40	"	"	X	X	
	12	±.30	"	"	X	X	
	12	±.25	"	"	.05	±.6" @ 25 ±5°C & 180±5°C, ±1.5" @ -54±2°C	
	24	±.40	"	"	0	"	
	36	±.35	"	"	.15	"	
	48	±.30	"	"	.10	"	
	60	±.35	"	"	.20	"	
	72	±.30	"	"	.20	"	
	84	±.25	"	"	.10	"	
	96	±.30	"	"	.10	"	
	108	±.20	"	"	.15	"	
	120	±.20	"	"	.10	"	

DATA TAKEN PRIOR TO VIBRATION

DATE: 4/12/64 TIME: 4:00 PM UNIT S/N: 1000 TESTER: DS Thompson

TEST:	ADJUST:	TEMP. °C	LINE VOLTS @ 400 CPS	RMS VTVM VOLTS	MANOMETER "HG	BAROMETER "HG	TOTAL "HG
1.3.1	Pressure & Voltage	25	115	9	108.00	29.05	108
1.3.2	"	X	X	10	120.30	X	120.30
1.3.3	Pressure carefully	X	X	9	108.25	X	108.25
1.3.4	"	X	X	8	96.30	X	96.30
1.3.5	"	X	X	7	84.40	X	84.40
1.3.6	"	X	X	6	72.50	X	72.50
1.3.7	"	X	X	5	60.55	X	60.55
1.3.8	"	X	X	4	48.40	X	48.40
1.3.9	"	X	X	3	36.45	X	36.45
1.3.10	"	X	X	2	24.35	X	24.35
1.3.11	"	X	X	1	12.40	X	12.40
1.3.12	"	X	X	1	12.35	X	12.35
1.3.13	"	X	X	2	24.30	X	24.30
1.3.14	"	X	X	3	36.25	X	36.25
1.3.15	"	X	X	4	48.30	X	48.30
1.3.16	"	X	X	5	60.30	X	60.30
1.3.17	"	X	X	6	72.35	X	72.35
1.3.18	"	X	X	7	84.25	X	84.25
1.3.19	"	X	X	8	96.30	X	96.30
1.3.20	"	X	X	9	108.20	X	108.20
1.3.21	"	25	115	10	120.20	29.05	120.20

A

ACCEPTED ☑

REJECTED ☐ INSPECTOR: [signature]

	THEOR-ETICAL T.G	SCALE ERROR	LIMITS	NOTES	FRICTION ERROR	LIMITS	COMMENTS
	X	X	X	X	X	X	
0	120	+.30	X	X	X	X	
5	108	+.25	±1.2° @ 25 ±5°C	Do not overshoot		X	
0	96	+.30	& 180±5°C,	"		X	
	84	+.40	±1.5° @ -54±2°C	"		X	
	72	+.50	"	"	X	X	
	60	+.55	"	"	"	X	
	48	+.40	"	"	"	X	
	36	+.45	"	"	"	X	
	24	+.35	"	"	"	X	
	12	+.40	"	"	"	X	
	24	+.35	"	"	.05	"	
	24	+.30	"	"	.05	"	
	36	+.25	"	"	.20	& 180±5°C,	
	48	+.30	"	"	.0	-54±2°C	
	60	+.30	"	"	.25	"	
	72	+.35	"	"	.15	"	
	84	+.25	"	"	.15	"	
	96	+.30	"	"	0	"	
	108	+.20	"	"	.05	"	
	120	+.20	"	"	.10	"	

TELECTRO-MEK, INC. 300076

TEST RECORD, TRK-52-1 (300015-2) XMTR

8

DATA TAKEN AT LOW TEMP

DATE: 4/14/64 TIME: 4:00 AM XMTR S/: 1000 TESTER: RS Thompson

TEST:	ADJUST:	TEMP. °C	LINE VOLTS @ 400 CPS	RMS VTVM VOLTS	MANOMETER "HG	BAROMETER "HG	TOTAL "HG
1.3.1	Pressure & Voltage	-54	115	9	108.00	29.15	108
1.3.2	"	X	X	10	120.10	X	120.10
1.3.3	Pressure carefully	X	X	9	108.05	X	108.05
1.3.4	"	X	X	8	96.00	X	96.00
1.3.5	"	X	X	7	84.00	X	84.00
1.3.6	"	X	X	6	72.10	X	72.10
1.3.7	"	X	X	5	59.85	X	59.85
1.3.8	"	X	X	4	47.80	X	47.80
1.3.9	"	X	X	3	35.90	X	35.90
1.3.10	"	X	X	2	23.80	X	2 .80
1.3.11	"	X	X	1	11.90	X	11.90
1.3.12	"	X	X	-	11.80	X	11.80
1.3.13	"	X	X	2	23.75	X	23.75
1.3.14	"	X	X		35.75	X	35.75
1.3.15	"	X	X	4	47.75	X	47.75
1.3.16	"	X	X	5	59.80	X	59.80
1.3.17	"	X	X	6	71.90	X	71.90
1.3.18	"	X	X	7	83.80	X	83.80
1.3.19	"	X	X	8	95.80	X	95.80
1.3.20	"	X	X	9	108.00	X	108.00
1.3.21	"	-54	115	10	120.00	29.15	120.00

A

ACCEPTED ☑

REJECTED ☐ INSPECTOR: [signature]

	TRIGONOMETRICAL FIG	SCALE ERROR	LIMITS	NOTES	FRICTION ERROR	LIMITS	COMMENTS
	X	X	X	X	X	X	
	120	+.10	X	X	X	X	
5	108	+.05	±1.2" @ 25 ±5°C & 180±5°C, ±1.[illegible]°C -54±2°C	Do not overshoot ±	X	X	
6	96	0	"	"	X	X	
0	84	0	"	"	X	X	
	72	+.10	"	"	X	X	
	60	-.15	"	"	X	X	
	48	-.20	"	"	X	X	
	36	-.10	"	"	X	X	
	24	-.20	"	"	X	X	
	12	-.10	"	"	X	X	
	12	-.20	"	"	.10	±.6" @ 25 ±5°C & 180±5°C, -54±2°C	
	24	-.25	"	"	.05	"	
	36	-.25	"	"	.15	"	
	48	-.25	"	"	.15	"	
	60	-.20	"	"	.05	"	
	72	-.10	"	"	.20	"	
	84	-.20	"	"	.20	"	
	96	-.20	"	"	.20	"	
	108	0	"	"	.05	"	
	120	0	"	"	.10	"	

DATA TAKEN AFTER VIBRATION

DATE: 4/13/64 TIME: 1:00 AM XMTR SN: 1000 TESTER: RS Thompson

TEST:	ADJUST:	TEMP. °C	LINE VOLTS @ 400 CPS	RMS VTVM VOLTS	MANOMETER "HG	BAROMETER "HG	TOTAL "HG
1.3.1	Pressure & Voltage	25	115	9	108.00	29.25	108
1.3.2	"	X	X	10	120.25	X	120.25
1.3.3	Pressure carefully	X	X	9	108.30	X	108.30
1.3.4	"	X	X	8	96.45	X	96.45
1.3.5	"	X	X	7	84.45	X	84.45
1.3.6	"	X	X	6	72.45	X	72.45
1.3.7	"	X	X	5	60.40	X	60.40
1.3.8	"	X	X	4	48.35	X	48.35
1.3.9	"	X	X	3	36.40	X	36.40
1.3.10	"	X	X	2	24.40	X	24.40
1.3.11	"	X	X	1	12.40	X	12.40
1.3.12	"	X	X	1	12.35	X	12.35
1.3.13	"	X	X	2	24.30	X	24.30
1.3.14	"	X	X	3	36.30	X	36.30
1.3.15	"	X	X	4	48.30	X	48.30
1.3.16	"	X	X	5	60.25	X	60.25
1.3.17	"	X	X	6	72.25	X	72.25
1.3.18	"	X	X	7	84.30	X	84.30
1.3.19	"	X	X	8	96.30	X	96.30
1.3.20	"	X	X	9	108.25	X	108.25
1.3.21	"	25	115	10	120.20	29.25	120.20

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ACCEPTED ☑

REJECTED ☐ INSPECTOR: [signature]

	ERROR-ITICAL TIG	SCALE ERROR	LIMITS	NOTES	FRICTION ERROR	LIMITS	COMMENTS
	X	X	X	X		X	
	120	+.25	X	X		X	
	108	+.30	±1.2° 25 ±5°C & 180±5°C, ±1. -54±2°C	Do not overshoot		X	
	96	+.45	"	"		X	
	84	+.45	"	"		X	
	72	+.45	"	"		X	
	60	+.40	"	"		X	
	48	+.35	"	"		X	
	36	+.40	"	"		X	
	24	+.40	"	"		X	
	12	+.40	"	"		X	
	12	+.35	"	"	.05	±.6° @ 25 ±5°C & 180±5°C, -54±2°C	
	24	+.30	"	"	.10		
	36	+.20	"		.10		
	48	+.30	"		.15		
	60	+.25	"	"	.15	"	
	72	+.25	"	"	.20	"	
	84	+.30	"	"	.15	"	
	96	+.30	"	"	.15	"	
	108	+.25	"	"	.05	"	
	120	+.20	"	"	.05	"	

TELECTRO-MEK, INC. 300076

TEST RECORD, TRK-52-1 (300015-2) XMTR

DATA TAKEN AFTER HIGH TEMP @ Room

DATE: 4/11/64 TIME: 8:00 AM XMTR SN: 1000 TESTER: R Thompson

TEST:	ADJUST:	TEMP. °C	LINE VOLTS @ 400 CPS	RMS VTVM VOLTS	MANOMETER "HG	BAROMETER "HG	TOTAL "HG
1.3.1	Pressure & Voltage	25	115	9	108.00	29.15	108
1.3.2	"	X	X	10	120.20	X	120.20
1.3.3	Pressure carefully	X	X	9	108.10	X	108.10
1.3.4	"	X	X	8	96.15	X	96.15
1.3.5	"	X	X	7	84.20	X	84.20
1.3.6	"	X	X	6	72.20	X	72.20
1.3.7	"	X	X	5	60.10	X	60.10
1.3.8	"	X	X	4	48.10	X	48.10
1.3.9	"	X	X	3	36.10	X	36.10
1.3.10	"	X	X	2	24.25	X	24.25
1.3.11	"	X	X	1	12.20	X	12.20
1.3.12	"	X	X	2	12.20	X	12.20
1.3.13	"	X	X	3	24.20	X	24.20
1.3.14	"	X	X	4	36.20	X	36.20
1.3.15	"	X	X	5	48.20	X	48.20
1.3.16	"	X	X	6	60.15	X	60.15
1.3.17	"	X	X	7	72.15	X	72.15
1.3.18	"	X	X	8	84.15	X	84.15
1.3.19	"	X	X	9	96.10	X	96.10
1.3.20	"	X	X	9	108.10	X	108.10
1.3.21	"	25	115	10	120.10	29.15	120.10

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ACCEPTED ☑

REJECTED ☐ INSPECTOR: [signature]

	THEOR-ETICAL T.C	SCALE ERROR	LIMITS	NOTES	FRICTION ERROR	LIMITS	COMMENTS
	X	X	X	X	X	X	
	120	±.20	X	X	X	X	
	108	±.10	±1.2" @ 25 ±5°C	Do not overshoot	X	X	
	96	±.15	& 180±5°C,	"	X	X	
	84	±.20	±1.5" @ -54±2°C	"	X	X	
	72	±.20	"	"	X	X	
	60	±.10	"	"	X	X	
	48	±.10	"	"	X	X	
	36	±.10	"	"		X	
	24	±.25	"	"	X	X	
	12	±.20	"	"		X	
	12	±.10	"	"	0	±1.6" @ 25°C & 180±5°C, -54±2°C	
	24	±.20	"	"	.05		
	36	±.20	"	"	.10		
	48	±.10	"	"	.10		
	60	±.15	"	"	.05	"	
	72	±.15	"	"	.05	"	
	84	±.15	"	"	.05	"	
	96	±.10	"	"	.05	"	
	108	±.10	"	"	0	"	
	120	±.10	"	"	.10	"	

DATA TAKEN AFTER SHOCK

DATE: 4/12/64 TIME: 3:00 AM XMTR SN: 1000 TESTER: R.S. Thompson

TEST:	ADJUST:	TEMP. °C	LINE VOLTS @ 400 CPS	RMS VTVM VOLTS	MANOMETER "HG	BAROMETER "HG	TOTAL "HG
1.3.1	Pressure & Voltage	25	115	9	108.00	29.05	108
1.3.2	"	X	X	10	120.30	X	120.30
1.3.3	Pressure carefully	X	X	9	108.35	X	108.35
1.3.4	"	X	X	8	96.40	X	96.40
1.3.5	"	X	X	7	84.40	X	84.40
1.3.6	"	X	X	6	72.45	X	72.45
1.3.7	"	X	X	5	60.50	X	60.50
1.3.8	"	X	X	4	48.55	X	48.55
1.3.9	"	X	X	3	36.45	X	36.45
1.3.10	"	X	X	2	24.35	X	24.35
1.3.11	"	X	X	1	12.45	X	12.45
1.3.12	"	X	X	1	12.40	X	12.40
1.3.13	"	X	X	2	24.30	X	24.30
1.3.14	"	X	X	3	36.30	X	36.30
1.3.15	"	X	X	4	48.30	X	48.30
1.3.16	"	X	X	5	60.35	X	60.35
1.3.17	"	X	X	6	72.30	X	72.30
1.3.18	"	X	X	7	84.25	X	84.25
1.3.19	"	X	X	8	96.25	X	96.25
1.3.20	"	X	X	9	108.30	X	108.30
1.3.21	"	25	115	10	120.30	29.05	120.30

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ACCEPTED ☑

REJECTED ☐ INSPECTOR: [signature]

	THEOR-ETICAL DEG	SCALE ERROR	LIMITS	NOTES	FRICTION ERROR	LIMITS	COMMENTS
	X	X	X	X	X	X	
0	120	+.30	X	X	X	X	
5	108	+.35	±1.2° @ 25 ±5°C & 180±5°C, ±1.[illegible] -54±2°C	Do not overshoot	"	X	
0	96	+.40	"	"	"	X	
0	84	+.40	"	"	"	X	
5	72	+.45	"	"	"	X	
0	60	+.50	"	"	"	X	
5	48	+.55	"	"	"	X	
5	36	+.45	"	"	"	X	
5	24	+.35	"	"	"	X	
5	12	+.45	"	"	"	X	
0	12	+.40	"	"	.05	±.6° @ 25 ±5°C & 180±5°C, -54±2°C	
0	24	+.30	"	"	.05	"	
0	36	+.30	"	"	.15	"	
0	48	+.30	"	"	.15	"	
5	60	+.25	"	"	.15	"	
0	72	+.35	"	"	.10	"	
5	84	+.25	"	"	.15	"	
5	96	+.25	"	"	.15	"	
0	108	+.30	"	"	.05	"	
0	120	+.30	"	"	0	"	

TELECTRO-MEK, INC. 300076

TEST RECORD, TRK-52-1 (300015-2) XMTR

B

DATA TAKEN AFTER LOW TEMP @ ROOM

DATE: 4/14/64 TIME: 7:00AM XMTR SN: 1000 TESTER: RS Thompson

TEST:	ADJUST:	TEMP. °C	LINE VOLTS @ 400 CPS	RMS VTVM VOLTS	MANOMETER "HG	BAROMETER "HG	TOTAL "HG
1.3.1	Pressure & Voltage	25	115	9	108.00	29.15	108
1.3.2	"	X	X	10	120.15	X	120.15
1.3.3	Pressure carefully	X	X	9	108.10	X	108.10
1.3.4	"	X	X	8	96.15	X	96.15
1.3.5	"	X	X	7	84.20	X	84.20
1.3.6	"	X	X	6	72.25	X	72.25
1.3.7	"	X	X	5	60.30	X	60.3
1.3.8	"	X	X	4	48.30	X	48.30
1.3.9	"	X	X	3	36.25	X	36.25
1.3.10	"	X	X	2	24.25	X	24.25
1.3.11	"	X	X	1	12.20	X	12.20
1.3.12	"	X	X	1	12.15	X	12.15
1.3.13	"	X	X	2	24.20	X	24.20
1.3.14	"	X	X	3	36.20	X	36.20
1.3.15	"	X	X	4	48.25	X	48.25
1.3.16	"	X	X	5	60.20	X	60.20
1.3.17	"	X	X	6	72.20	X	72.20
1.3.18	"	X	X	7	84.15	X	84.15
1.3.19	"	X	X	8	96.15	X	96.15
1.3.20	"	X	X	9	108.10	X	108.10
1.3.21	"	25	115	10	120.10	29.15	120.10

ACCEPTED ☑

REJECTED ☐ INSPECTOR: [signature]

	THEOR-ETICAL ANG	SCALE ERROR	LIMITS	NOTES	FRICTION ERROR	LIMITS	COMMENTS
	X	X	X	X	X	X	
	120	±.15	X	X	"	X	
	108	±.10	±1.2° @ 25 ±5°C	Do not overshoot	"	X	
	96	±.15	& 180±5°C,	"	"	X	
	84	±.20	±1.2° @ -54±2°C	"	"	X	
	72	±.25	"	"	"	X	
	60	±.30	"	"	"	X	
	48	±.30	"	"	"	X	
	36	±.25	"	"	"	X	
	24	±.25	"	"	"	X	
	12	±.20	"	"	"	X	
	12	±.15	"	"	.05	±.6° @ 25 ±5°C & 180±5°C, -54±2°C	
	24	±.20	"	"	.05	"	
	36	±.20	"	"	.05	"	
	48	±.25	"	"	.05	"	
	60	±.20	"	"	.10	"	
	72	±.20	"	"	.05	"	
	84	±.15	"	"	.05	"	
	96	±.15	"	"	.00	"	
	108	±.10	"	"	.00	"	
	120	±.10	"	"	.05	"	

B

DATA TAKEN PRIOR TO TEMP-ALT

DATE: 4/6/64 TIME: 2:00 PM XMTR SN: 1000 TESTER: RS Thompson

PT:	ADJUST:	TEMP. °C	LINE VOLTS @ 400 CPS	RMS VTVM VOLTS	MANOMETER "HG	BAROMETER "HG	TOTAL "HG
1	Pressure & Voltage	25	115	9	108.00	29.20	108
2	"	X	X	10	120.30	X	120.30
3	Pressure Carefully	X	X	9	108.30	X	108.30
4	"	X	X	8	96.35	X	96.35
5	"	X	X	7	84.40	X	84.40
6	"	X	X	6	72.40	X	72.40
7	"	X	X	5	60.40	X	60.40
8	"	X	X	4	48.40	X	48.40
9	"	X	X	3	36.45	X	36.45
10	"	X	X	2	24.50	X	24.50
11	"	X	X	1	12.40	X	12.40
12	"	X	X	1	12.35	X	12.35
13	"	X	X	2	24.45	X	24.45
14	"	X	X	3	36.30	X	36.30
15	"	X	X	4	48.30	X	48.30
16	"	X	X	5	60.30	X	60.30
17	"	X	X	6	72.35	X	72.35
18	"	X	X	7	84.35	X	84.35
19	"	X	X	8	96.30	X	96.30
20	"	X	X	9	108.25	X	108.25
21	"	25	115	10	120.25	29.20	120.25

ACCEPTED ☑ REJECTED ☐ INSPECTOR: [signature]

THEOR-ITICAL "HG	SCALE ERROR	LIMITS	NOTES	FRICTION ERROR	LIMITS	COMMENTS
X	X	X	X		X	
120	+.30	X	X	"	X	
108	+.30	±1.2" @ 25 ±5°C	Do not overshoot	"	X	
96	+.35	& 180±5°C,	"	"	X	
84	+.40	±1.[illegible] @ -54±2°C	"	"	X	
72	+.40	"	"	"	X	
60	+.40	"	"	"	X	
48	+.40	"	"	"	X	
36	+.45	"	"	"	X	
24	+.50	"	"	"	X	
12	+.40	"	"	"	X	
12	+.35	"	"	.05	±[illegible] @ 25 ±5°C, & 180±5°C, -54±2°C	
24	+.45	"	"	.05	"	
36	+.30	"	"	.15	"	
48	+.35	"	"	.10	"	
60	+.30	"	"	.10	"	
72	+.25	"	"	.05	"	
84	+.35	"	"	.05	"	
96	+.30	"	"	.05	"	
108	+.25	"	"	.05	"	
120	+.25	"	"	.05	"	

DATA TAKEN AFTER TEMP-ALT @ ROOM

DATE: 4/7/64 TIME: 8:00AM XMTR SN: 1000 TESTER: R.S. Thompson

TEST:	ADJUST:	TEMP. °C	LINE VOLTS @ 400 CPS	RMS VTVM VOLTS	MANOMETER "HG	BAROMETER "HG	TOTAL "HG
1.3.1	Pressure & Voltage	25	115	9	108.00	29.15	108
1.3.2	"	X	X	[illegible]	120.25	X	120.25
1.3.3	Pressure carefully	X	X	[illegible]	108.30	X	108.30
1.3.4	"	X	X	[illegible]	96.35	X	96.35
1.3.5	"	X	X	[illegible]	84.40	X	84.40
1.3.6	"	X	X	[illegible]	72.40	X	72.40
1.3.7	"	X	X	[illegible]	60.45	X	60.45
1.3.8	"	X	X	[illegible]	48.50	X	48.50
1.3.9	"	X	X	[illegible]	36.50	X	36.50
1.3.10	"	X	X	[illegible]	24.40	X	24.40
1.3.11	"	X	X	[illegible]	12.40	X	12.40
1.3.12	"	X	X	[illegible]	12.35	X	12.35
1.3.13	"	X	X	[illegible]	24.30	X	24.30
1.3.14	"	X	X	[illegible]	36.25	X	36.25
1.3.15	"	X	X	[illegible]	48.25	X	48.25
1.3.16	"	X	X	[illegible]	60.30	X	60.30
1.3.17	"	X	X	[illegible]	72.25	X	72.25
1.3.18	"	X	X	7	84.20	X	84.20
1.3.19	"	X	X	[illegible]	96.30	X	96.30
1.3.20	"	X	X	[illegible]	108.20	X	108.20
1.3.21		25	115	10	120.20	29.15	120.20

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ACCEPTED ☑ REJECTED ☐ INSPECTOR: [signature]

THEOR-ETICAL ANG	SCALE ERROR	LIMITS	NOTES	FRICTION ERROR	LIMITS	COMMENTS
X	X	X	X	X	X	
0.25	120	+.25	X	X	X	X
08.30	108	+.30	±1.2' 25 ±5°C & 180±5°C, ±1' -54±2°C	Do not overshoot	X	X
6.35	96	+.25	"	"	X	X
4.40	84	+.40	"	"	X	X
2.40	72	+.40	"	"	X	X
0.45	60	+.45	"	"	X	X
8.50	48	+.50	"	"	X	X
6.50	36	+.50	"	"	X	X
4.40	24	+.40	"	"	X	X
2.40	12	+.40	"	"	X	X
.35	12	+.35	"	"	.05	±1' 25 ±5°C & 180±5°C, -54±2°C.
.30	24	+.30	"	"	.10	"
.25	36	+.25	"	"	.25	"
.25	48	+.25	"	"	.25	"
.30	60	+.30	"	"	.15	"
.25	72	+.25	"	"	.15	"
.20	84	+.20	"	"	.20	"
.30	96	+.30	"	"	.05	"
20	108	+.20	"	"	.10	"
.20	120	+.20	"	"	.05	"

DATA TAKEN AT HIGH TEMP

5/11/69 7:15 AM [illegible signature]

STEP	ADJUST	TEMP. °C	LINE VOLTS @ 400 CPS	[illegible]	PSIA	[illegible]	TOTAL [illegible] PSID
1.3.1	Pressure & Voltage	180	115		[illegible].15	29.15	54.00
1.3.2	"	X	X		89.25	X	60.10
1.3.3	Pressure carefully	X	X		83.18	X	54.03
1.3.4	"	X	X		77.21	X	48.06
1.3.5	"	X	X		71.16	X	42.01
1.3.6	"	X	X		65.19	X	36.04
1.3.7	"	X	X		59.21	X	30.06
1.3.8	"	X	X		53.15	X	24.00
1.3.9	"	X	X		47.17	X	18.02
1.3.10	"	X	X		41.22	X	12.07
1.3.11	"	X	X		35.18	X	6.03
1.3.12	"	X	X		35.17	X	6.02
1.3.13	"	X	X		41.20	X	12.05
1.3.14	"	X	X		47.16	X	18.01
1.3.15	"	X	X		53.14	X	23.99
1.3.16	"	X	X		59.20	X	30.05
1.3.17	"	X	X		65.16	X	36.01
1.3.18	"	X	X		71.15	X	42.00
1.3.19	"	X	X		77.19	X	48.04
1.3.20	"	X	X		83.15	X	54.00
1.3.21	"	180	115		89.20	29.15	60.05

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...D		THEORETICAL ...	SCALE ERROR	...		...	...	COMMENTS
00		54						
.10		[illegible]	+.10					
03		[illegible]	+.03	[illegible]	"			
06		[illegible]	+.06					
01		[illegible]	+.01	[illegible]				
04		[illegible]	+.04					
06		[illegible]	+.06	"				
00		[illegible]	00	"				
2		[illegible]	+.02					
7		[illegible]	+.07	"				
3		[illegible]	+.03	"				
2		[illegible]	+.02	"		.01	[illegible]	
5		[illegible]	+.05		"	.02	5 [illegible]	
1		[illegible]	+.01			.01	[illegible] 5°C,	
[illegible]		24	-.01			.01	[illegible]	
5		30	+.05	"		.06		
[illegible]		36	+.01	"		.03		
0		42	00	"		.01		
4		48	+.04	"		.02	"	
0		[illegible]	00	"		.03	"	
5		[illegible]	+.05			.05	"	

TELECTRO-MEK, INC. 300079

TEST RECORD, TRK-52-1 (300015-1) XMTR

DATA TAKEN AFTER SHOCK

DATE: 4/12/64 TIME: 3:15 PM

TEST #	ADJUST:	TEMP. °C	LINE VOLTS @ 400 CPS	RMS VIBR VOLTS	PSIA		PSIG
1.3.1	Pressure & Voltage	25	115	9	83.05	29.05	54.00
1.3.2	"	X	X	X	89.25	X	60.20
1.3.3	Pressure carefully	X	X	X	83.30	X	54.25
1.3.4	"	X	X	X	77.22	X	48.17
1.3.5	"	X	X	X	71.27	X	42.22
1.3.6	"	X	X	X	65.25	X	36.20
1.3.7	"	X	X	X	59.20	X	30.15
1.3.8	"	X	X	X	53.19	X	24.14
1.3.9	"	X	X	X	47.21	X	18.16
1.3.10	"	X	X	X	41.24	X	12.19
1.3.11	"	X	X	X	35.20	X	6.15
1.3.12	"	X	X	X	35.18	X	6.13
1.3.13	"	X	X	X	41.20	X	12.15
1.3.14	"	X	X	X	47.15	X	18.10
1.3.15	"	X	X	X	53.12	X	24.07
1.3.16	"	X	X	X	59.12	X	30.07
1.3.17	"	X	X	X	65.14	X	36.09
1.3.18	"	X	X	X	71.16	X	42.11
1.3.19	"	X	X	X	77.14	X	48.09
1.3.20	"	X	X	X	83.24	X	54.19
1.3.21	"	25	115	X	89.14	29.05	60.09

A

						COMMENTS
4.00						
60.20		+.20				
54.25		+.25				
48.17		+.17				
42.22		+.22				
36.20		+.20				
30.15		+.15				
24.14		+.14				
18.16		+.16				
12.19		+.19				
6.15		+.15				
6.13		+.13				
12.15		+.15				
18.10		+.10				
24.07						
30.07						
36.09						
42.11						
48.09						
54.19						
60.09						

DATA TAKEN AT LOW TEMP

DATE: 4/14/64 TIME: 4:15AM

E.S. Thomp[illegible]

STEP	ADJUST	TEMP. °C	VOLTS @ 400 CPS	[illegible]	[illegible]	[illegible]	BAROMETER "HG	TOTAL "HG PSI
1.3.1	Pressure & Voltage	-54	115			83.15	29.15	54.00
1.3.2	"	X				89.15	X	60.0
1.3.3	Pressure Overall	X				83.18	X	54.0
1.3.4	"	X				77.20	X	48.0
1.3.5	"	X	X			71.25	X	42.1
1.3.6	"	X	X			65.24	X	36.09
1.3.7	"	X	X			59.29	X	30.14
1.3.8	"	X	X			53.31	X	24.16
1.3.9	"	X	X			47.32	X	18.17
1.3.10	"	X	X			41.28	X	12.13
1.3.11	"	X	X			35.26	X	6.11
1.3.12	"	X				[illegible].24	X	6.09
1.3.13	"	X				41.[illegible]	X	12.10
1.3.14	"					47.[illegible]	X	18.13
1.3.15	"	X				53.21	X	24.16
1.3.16	"	X				59.26	X	30.11
1.3.17	"	X	X			65.22	X	36.07
1.3.18	"	X	X			71.22	X	42.07
1.3.19	"	X	X			77.16	X	48.01
1.3.20	"	X	X			83.16	X	54.01
1.3.21	"	-54	115			89.17	29.15	60.02

A

[illegible]	[illegible]	[illegible]			[illegible]	COMMENTS
5?						
[illegible]	+0					
54	+.03	[illegible]				
48	+.05					
42	+.10	[illegible]				
36	+.09					
30	+.14					
24	+.16					
18	+.17					
12	+.13					
06	+.11					
[illegible]	+.09			.02	[illegible]	
12	+.16			.03	[illegible] °C,	
18	+.13			[illegible]		
24	+.1[illegible]					
30	+.[illegible]					
36	+.07			.02		
42	+.07			.03		
48	+.07			.0[illegible]		
54	+.01			[illegible]		
5[illegible]	+.02					

TELECTRO-MEK, INC. 300079

TEST RECORD, TRK-52-1 (300015-1) XMTR

B

DATA TAKEN PRIOR-SAND, DUST, & SALT SPRAY

DATE: 3/10/64 TIME: 4:30PM [illegible] 2 [illegible] RG [illegible]

TEST NO.	ADJUST	TEMP. °C	LINE VOLTS 400 CPS	[illegible] VOLTS	PSI	MANOMETER "HG	TOTAL [illegible] PSID
1.3.1	Pressure & Voltage	25	115	S	83.05	29.05	54.00
1.3.2	"	X	X	[illegible]	89.15	X	60.10
1.3.3	Pressure carefully	X	X		83.05	X	54.00
1.3.4	"	X	X		77.20	X	48.15
1.3.5	"	X	X		71.35	X	42.30
1.3.6	"	X	X		65.30	X	36.25
1.3.7	"	X	X		59.45	X	30.40
1.3.8	"	X			53.45	X	24.40
1.3.9	"	X	X		47.25	X	18.20
1.3.10	"	X	X		41.20	X	12.15
1.3.11	"	X	X		35.25	X	[illegible]
1.3.12	"	X			35.25	X	6.20
1.3.13	"	X			41.25	X	12.20
1.3.14	"	X	X		47.35	X	18.30
1.3.15	"	X	X		53.40	X	24.35
1.3.16		X	X		59.40	X	30.35
1.3.17		X	X		65.25	X	36.20
1.3.18		X	X	Y	71.30	X	42.25
1.3.19		X	X		77.20	X	48.15
1.3.20	"	X	X		83.10	X	54.05
1.3.21	"				89.15		60.10

C

A

0							
10		+.10					
0		0					
5		±.15					
0		±.30					
5		±.25					
10		±.40					
10		±.40					
0		±.20					
5		±.15					
0		±.20					
0		±.20			0	.3"	
20		±.20			.05		
30		±.30			.10	25°C, 45	
35		±.35			.05		
35		±.35			.05		
20		±.20			.05		
25		±.25			.15		
15		±.15			0		
05		±.05			.05		
10		±.10			0		

B

DATA TAKEN BEFORE TEMP-ALT

4/6/64 2:15 PM RD Thompson

		25	115		83.20	29.20	54.00
	"	X	X		89.41	X	60.21
		X	X		83.44	X	54.24
	"	X	X		77.39	X	48.15
	"	X	X		71.40	X	42.20
	"	X	X		65.39	X	36.19
	"	X	X		59.46	X	30.26
	"	X	X		53.42	X	24.22
	"	X	X		47.41	X	18.21
	"	X	X		41.39	X	12.19
	"	X	X		35.44	X	6.24
	"	X	X		35.40	X	6.20
	"	X			41.36	X	12.16
	"	X	X		47.33	X	18.13
	"	X	X		53.38	X	24.13
	"	X	X		59.36	X	30.16
	"	X	X		65.31	X	36.11
	"	X	X		71.36	X	42.16
	"	X	X		77.37	X	48.17
	"	X	X		83.35	X	54.15
		25	115		89.38	29.20	60.18

A

							COMMENTS
0							
.21		+.21					
24		+.24					
15		+.15					
20		+.20					
19		+.19					
26		+.26					
22		+.22					
21		+.21					
9		+.19					
4		+.24					
20		+.20			.04		
16		+.16			.06		
13		+.13			.08		
13		+.13			[illegible]		
16		+.16			.10		
11		+.11			.08		
16		+.16			.04		
7		+.17			.02		
15		+.15			.09		
18		+.18			.03		

8

DATA TAKEN PRIOR TO SHOCK

4/12/64 TIME: 11:15AM XMTR SN: 2 RD Thompson

	ADJUST:	TEMP. °C	LINE VOLTS @ 400 CPS	[illegible] VOLTS	PSIA	[illegible]	PSID
	Pressure & Voltage	25	115	9	83.05	29.05	54.00
	"	X	X	10	89.25	X	60.20
3.3	Pressure carefully	X	X	9	83.14	X	54.09
3.4	"	X	X	8	77.21	X	48.16
3.5	"	X	X	7	71.18	X	42.13
3.6	"	X	X	6	65.20	X	36.15
3.7	"	X	X	5	59.15	X	30.10
3.8	"	X	X	4	53.22	X	24.17
3.9	"	X	X	3	47.16	X	18.11
3.10	"	X	X	2	41.20	X	12.15
3.11	"	X	X	1	35.23	X	6.18
3.12	"	X	X	1	35.24	X	6.19
3.13	"	X	X	2	41.18	X	12.13
3.14	"	X	X	3	47.16	X	18.05
3.15	"	X	X	4	53.15	X	24.10
3.16	"	X	X	5	59.08	X	30.03
3.17	"	X	X	6	65.10	X	36.05
3.18	"	X	X	7	71.11	X	42.06
3.19	"	X	X	8	77.14	X	48.09
3.20	"	X	X	9	83.05	X	54.00
3.21	"	25	115	10	89.15	29.05	60.10

ACCEPTED ☑

REJECTED ☐ INSPECTOR [illegible signature]

	READING NOMINAL	SCALE ERROR	LIMITS	NOTES	FRICTION	LIMITS	COMMENTS
	[illegible]	x	x	ROCK FOR BEST READING		x	
20	180	+.20	" "	DO NOT OVERSHOOT	x	"	
9	[illegible]	+.09	±.6" [illegible] 13°C	"	x	x	
6	210	+.16	& 180±5°C,	"	x	x	
3	240	+.13	±.9" -54±2°C	"	x	x	
5	360	+.15		"	x	x	
0	30	+.10	"		[illegible]	x	
7	[illegible]	+.17	"	"		x	
	180	+.11	"	"			
	12	+.15	"	"	x		
	6	+.18	"	"	x	x	
	[illegible]	+.19	"	"	.01	±.3" [illegible] 5°	
	12	+.13	"	"	.02		
	18	+.05	"	"	.06	180±5°C,	
	24	+.10	"	"	.07		
	30	+.03	"	"	.07		
	36	+.05	"	"	.10	"	
	12	+.06	"	"	.07	"	
	18	+.09	"	"	.07	"	
	24	+.00	"	"	.09	"	
	36	+.10	"	"	.10	"	

TELECTRO-MEK, INC. 300079

TEST RECORD, TRK-52-1 (300015-1) XMTR

B

DATA TAKEN AFTER HIGH TEMP @ ROOM

DATE: 1/11/64 TIME: 8:15 AM XMTR SN: 7. TESTER: [signature]

TEST:	ADJUST:	TEMP. °C	LINE VOLTS @ 400 CPS	RMS VTVM VOLTS	PSIA	BAROMETER "HG	TOTAL "HG PSID
1.[illegible].1	Pressure Voltage	25	115	9	83.15	29.15	54
1.[illegible].2	"	X	X	10	89.20	X	60.05
1.[illegible].3	Pressure carefully	X	X	9	83.25	X	54.10
1.[illegible].4	"	X	X	8	77.21	X	48.06
1.[illegible].5	"	X	X	7	71.20	X	42.05
1.[illegible].6	"	X	X	6	65.21	X	36.06
1.[illegible].7	"	X	X	5	59.19	X	30.04
1.[illegible].8	"	X	X	4	53.16	X	24.01
1.[illegible].9	"	X	X	3	47.22	X	18.07
1.[illegible].10	"	X	X	2	41.19	X	12.04
[illegible].11	"	X	X	1	35.25	X	6.10
1.[illegible].12	"	X	X	1	35.24	X	6.09
1.[illegible].13	"	X	X	2	41.18	X	12.03
1.[illegible].14	"	X	X	[illegible]	47.20	X	18.05
1.[illegible].15	"	X	X		53.15	X	24.00
1.[illegible].16	"	X	X	5	59.18	X	30.03
1.[illegible].17	"	X	X	6	65.18	X	36.03
1.[illegible].18	"	X	X	7	71.20	X	42.05
1.[illegible].19	"	X	X		71.16	X	48.01
1.[illegible].20	"	X	X	[illegible]	83.20	X	54.05
[illegible].21	"	25	115	10	89.16	29.15	60.01

A

54	X	X	ACCEPT AS IS WEST REVISION	X	X	
53	+.05	X	DO NOT OVER	X	X	
51	+.10	±.6" -54±2°C	"		X	
49	+.06	"	"		X	
42	+.05	±.9" -54±2°C	"		X	
39	+.06	"	"		X	
30	+.04	"	"		X	
24	+.01	"	"		X	
23	+.07	"	"		X	
22	+.04	"	"		X	
16	+.10	"	"		X	
14	+.09	"	"	.01	±.3"	
12	+.03	"	"	.01	5	
10	+.05	"	"	.02	100±5°C 45°	
2	±.3	"	"	.1		
30	+.03	"	"	.01	"	
36	+.03	"	"	.03	"	
46	+.05	"	"	0	"	
48	+.01	"	"	.05	"	
54	+.05	"	"	.0	"	
60	+.01	"	"	.04	"	

B

DATA TAKEN AFTER VIBRATION

4/13/64 1:15 AM

[illegible signature]

STEP	ADJUST	TEMP. °C	LINE VOLTS @ 400 CPS	[illegible]	[illegible]	[illegible]	PSID
1.3.1	Pressure & Voltage				83.25	29.25	54.00
1.3.2	"	X	X		89.40		60.15
1.3.3	Pressure carefully	X	X		83.40	X	54.15
1.3.4	"	X	X		77.42	X	48.17
1.3.5	"	X	X		71.46	X	42.21
1.3.6	"	X			65.48	X	36.23
1.3.7	"	X			59.51		30.26
1.3.8	"	X	X		53.46	X	24.21
1.3.9	"	X	X		47.50		18.25
1.3.10	"	X	X		41.45		12.20
[illegible].11	"	X	X		35.55	X	6.30
[illegible].3.12	"	X	X		5.45	X	6.20
[illegible].13	"	X	X		1.36		12.11
[illegible]	"	X	X		47.46		18.21
[illegible]	"	X	X		3.32		24.07
[illegible]	"	X	X		59.41		30.16
[illegible]	"	X	X	[illegible]	65.38	X	36.13
[illegible]	"	X	X	7	71.31	X	42.06
[illegible]	"	X	X		77.38	X	48.13
[illegible]	"	X	X	[illegible]	83.35		54.10
[illegible]				10	89.36	29.25	60.11

4

0					
.15		+.15			
.15		+.15			
.17		+.17			
21		+.21			
23		+.23			
26		+.26			
21		+.21			
25		+.25			
0		+.20			
0		+.30			
0		+.20		.10	
1		+.11		.09	
21		+.21		.04	
07		+.07		.1	
6		+.16		.1	
3		+.12		.1	
06		+.06		.15	
3		+.13		.04	
0		+.10		.05	
1		+.11		.04	

TELECTRO-MEK, INC. 300079

TEST RECORD, TRK-52-1 (300015-1) XMTR

B

DATA TAKEN AFTER - [illegible] & SALT SPRAY

DATE: 5/13/64 TIME: 5:00PM XMTR [illegible] [illegible]: [illegible signature]

[illegible]	ADJUST:	TEMP. °C	LINE VOLTS @ 400 CPS	[illegible]	PSIA	[illegible] HG	[illegible] PSID
1.3.1	Pressure & Voltage	25	115	9	83.25	29.25	54.00
1.3.2	"	X	X	[illegible]	89.30	X	60.05
1.3.3	Pressure carefully	X	X		83.40	X	54.15
1.3.4	"	X	X		77.45	X	48.20
1.3.5	"	X	X		71.55	X	42.30
1.3.6	"	X	X	[illegible]	65.50	X	36.25
1.3.7	"	X	X	[illegible]	59.65	X	30.40
1.3.8	"	X	X	[illegible]	53.60	X	24.35
1.3.9	"	X	X	[illegible]	47.40	X	18.15
1.3.10	"	X	X	[illegible]	41.40	X	12.15
1.3.11	"	X	X		35.45	X	6.20
1.3.12	"	X	X		35.50	X	6.25
1.3.13	"	X	X		41.45	X	12.20
1.3.14	"	X	X		47.40	X	18.15
1.3.15	"	X			5[illegible].65		24.40
1.3.16	"	X	X		59.65	X	30.40
1.3.17	"	X	X		65.45	X	36.20
1.3.18	"	X	X		71.50	X	42.25
1.3.19	"	X	X		77.45	X	77.20
1.3.20	"	X	X		83.35	X	54.10
1.3.21	"	25	115		89.30		60.05

A

STD	[illegible]	SCALE READ	LIMITS	[illegible]	[illegible]	LIMITS	COMMENTS
.00	[illegible]	X	X	[illegible]	X	X	
0.05	[illegible]	+.05		[illegible]		X	
.15	[illegible]	+.15	±.5"	"			
.20	[illegible]	+.20					
.30	[illegible]	+.30	[illegible]				
.25	[illegible]	+.25					
.40	[illegible]	+.40					
.35	[illegible]	+.35	"				
.15	[illegible]	+.15	"				
.15	[illegible]	+.15	"				
.20	[illegible]	+.20	"				
.25	[illegible]	+.25	"		.05	[illegible]	
.20	[illegible]	+.20	"		.05	[illegible]	
.15	[illegible]	+.15	"		0		
.40	[illegible]	[illegible]	"		[illegible]		
.40	[illegible]	+.40	"		0		
.20	[illegible]	+.20	"		.05	"	
.25	[illegible]	+.25	"		.05	"	
.20	[illegible]	+.20	"	"	0	"	
.10	[illegible]	+.10	"	"	.05	"	
.05	[illegible]	+.05	"		0		

TELECTRO-MEK, INC. 3000?

TEST RECORD, TRK-52-1 (300015-1) XMTR

8

DATA TAKEN AFTER TEM[illegible]

DATE: 4/9/64 TIME: 8:15 AM XMTR [illegible] Z[illegible] [illegible]: R G Thompson

STEP	ADJUST	TEMP. C.	LINE VOLTS [illegible] 400 CPS	[illegible] VTVM VOLT	PSIA	BAROMETER "HG	TOTAL [illegible] PSID
1.[illegible].1	Pressure Voltage	25	115	8	83.15	29.15	54.00
1.3.2	"	X	X	10	89.24		60.09
1.3.3	Pressure carefully	X	X	9	83.22	X	54.07
1.3.4	"	X	X	[illegible]	77.26	X	48.11
1.3.5	"	X	X	[illegible]	71.28	X	42.13
1.3.6	"	X	X	[illegible]	65.30		36.15
1.3.7	"	X	X	[illegible]	59.31	X	30.16
1.3.8	"	X	X	[illegible]	53.28	X	24.13
1.3.9	"	X	X	[illegible]	47.29	X	18.14
1.3.10	"	X	X	[illegible]	41.31	X	12.16
1.3.11	"	X	X	[illegible]	35.33	X	6.18
1.3.12	"	X	X	[illegible]	35.28	X	6.13
1.3.13	"	X	X		[illegible]	X	12.11
1.3.14	"	X	X		[illegible]	X	18.09
1.3.15	"	X	X		[illegible]	X	24.10
1.3.16	"	X	X		59.26	X	30.11
1.3.17	"	X	X	6	65.29	X	36.14
1.3.18	"	X	X	7	71.22	X	42.07
1.3.19	"	X	X	8	77.21	X	48.06
1.3.20	"	X	X	9	83.20	X	54.05
1.3.21	"	25	115	10	89.21	29.15	60.06

A

ACCEPTED ☑

REJECTED ☐ INSPECTOR [signature]

[partial] D LI[partial]	[partial]OR-[partial]CAL [partial]G	SCALE ERROR	LIMITS	NOTES	FRICTION ERROR	LIMITS	COMMENTS
.00	[illegible]	x	x	ROCK FOR BEST READING		x	
209	[illegible]	+.09	x	DO NOT OVERSHOOT		x	
.07	[illegible]	+.07	±.6" 25±5°C & 160±5°C, ±.9" -54±2°C	"		x	
.11	[illegible]	+.11		"		x	
13	[illegible]	+.13				x	
.15	[illegible]	+.15	"			x	
16	[illegible]	+.16	"			x	
.13	[illegible]	+.13	"	"		x	
14	[illegible]	+.14	"	"		x	
16	[illegible]	+.16	"	"		x	
18	[illegible]	+.18	"	"		x	
3	[illegible]	+.13	"	"	.05	±.3" 25±5°C, 150±5°C, .45" -54±2°C	
11	[illegible]	+.11	"	"	.05		
09	18	+.09	"	"	.05		
.10	24	+.10	"	"	.03		
.11	30	+.11	"	"	.05	"	
14	36	+.14	"	"	.01	"	
07	42	+.07	"	"	.06	"	
.06	48	+.06	"	"	.06	"	
.05	54	+.05	"	"	.02	"	
06	60	+.06	"	"	.03	"	

300079

TELECTRO-MEK, INC.

TEST RECORD, TRK-52-1 (300015-1) XMTR

B

DATA TAKEN AFTER LOW TEMP @ ROOM

DATE: 4/14/64 TIME: 7:15 AM XMTR. SN: 2 TESTER: RGShomp[illegible]

STEP	ADJUST:	TEMP. °C	LINE VOLTS @ 400 CPS	RMS VTVM VOLTS	PSIA	BAROMETER "HG	TOTAL "HG PSID
1.3.1	Pressure & Voltage	25	115	9	83.15	29.15	54.00
1.3.2	"	X	X	10	89.24	X	60.09
1.3.3	Pressure carefully	X	X	9	83.20	X	54.05
1.3.4	"	X	X	8	77.23	X	48.08
1.3.5	"	X	X	7	71.29	X	42.14
1.3.6	"	X	X	6	65.36	X	36.21
1.3.7	"	X	X	5	59.38	X	30.23
1.3.8	"	X	X	4	53.41	X	24.26
1.3.9	"	X	X	3	47.39	X	18.24
1.3.10	"	X	X	2	41.32	X	12.17
1.3.11	"	X	X	1	35.29	X	6.14
1.3.12	"	X	X	1	35.26	X	6.11
1.3.13	"	X	X	2	41.30	X	12.15
1.3.14	"	X	X	3	47.36	X	18.21
1.3.15	"	X	X	4	53.38	X	24.23
1.3.16	"	X	X	5	59.35	X	30.20
1.3.17	"	X	X	6	65.30	X	36.15
1.3.18	"	X	X	7	71.25	X	42.10
1.3.19	"	X	X	8	77.20	X	48.05
1.3.20	"	X	X	9	83.20	X	54.05
[illegible]	"	25	115	10	89.22		60.07

A

ACCEPTED [✓]

REJECTED [ ]

INSPECTOR: [signature]

D	[illegible]TICAL [illegible]	SCALE ERROR	LIMITS	NOTES	FRACTION ERROR	LIMITS	COMMENTS
0	59	X	X	LOOK FOR BEST READING	[illegible]	X	
09	20	+.09	X	DO NOT OVERSHOOT	X	X	
05	54	+.05	±.6" 25 ±5°C & 160 ±5°C, ±.9" -54±2°C	"	X	X	
08	48	+.08		"	X	X	
4	42	+.14			X	X	
21	36	+.21	"	"	X	X	
23	30	+.23	"			X	
26	24	+.26	"	"		X	
4	18	+.24	"			X	
7	12	+.17	"	"		X	
4	6	+.14	"		X	X	
1	6	+.11	"		.03	.3" ±5° & 160 ±5°C, .45" [illegible]°C	
5	12	+.5	"	"	.02		
21	18	+.21	"	"	.03		
3	24	+.[illegible]		"	.03		
20	30	+.20	"	"	.03	"	
15	36	+.15	"	"	.06	"	
10	42	+.10	"	"	.04	"	
05	48	+.05	"	"	.03	"	
05	54	+.05	"	"	0	"	
07	60	+.07	"	"	.02	"	

TELECTRO-MEK, INC. 300079

TEST RECORD, TRK-52-1 (300015-1) XMTR

DATA TAKEN PRIOR TO VIBRATION

[illegible]: 4/12/64 TIME: 4:15PM [illegible] 2 [illegible]: RJThompson

[illegible]	ADJUST:	TEMP. °C	LINE VOLTS @ 400 CPS	[illegible] VOLTS	PSIA	BAROMETER "HG	TOTAL "HG PSID
1.1	Pressure & Voltage	25	115	9	83.05	29.05	54.00
1.2	"	X	X	10	89.26	X	60.21
1.3	Pressure carefully	X	X	9	83.21	X	54.16
1.4	"	X	X	8	77.26	X	48.21
1.5	"	X	X	7	71.31	X	42.26
1.6	"	X	X	6	65.34	X	36.29
1.7	"	X	X	5	59.31	X	30.26
1.8	"	X	X	4	53.37	X	24.32
1.9	"	X	X	3	47.32	X	18.27
1.10	"	X	X	2	41.29	X	12.24
1.11	"	X	X	1	35.29	X	6.24
1.12	"	X	X	1	35.21	X	6.16
1.13	"	X	X	2	41.22	X	12.17
1.14	"	X	X	3	47.26	X	18.21
1.15	"	X	X	4	53.27	X	24.22
1.16	"	X	X	5	59.21	X	30.16
1.17	"	X	X	6	65.22	X	36.17
1.18	"	X	X	7	71.24	X	42.19
1.19	"	X	X	8	77.23	X	48.18
1.20	"	X	X	9	83.20	X	54.15
1.21	"	25	115	10	89.22	29.05	60.17

4.

A

ACCEPTED ☑
REJECTED ☐

[illegible]sshompson   INSPECTOR: [illegible]

TOTAL [illegible] PSID	[illegible]	SCALE ERROR	LIMITS	NOTES	FRACTION ERROR	LIMITS
54.00	54	X	X	ROCK FOR BEST READING	X	X
[illegible]60.21	[illegible]	+.21	X	DO NOT OVERSHOOT	X	X
54.16	[illegible]	+.16	±.6" [illegible] ±5°C & [illegible] 5°C, ±.9" [illegible]2°C	"	X	X
48.21	[illegible]	+.21		"	X	X
42.26	[illegible]	+.26		"	X	X
36.29	36	+.29	"	"	X	X
30.26	30	+.26	"	"	X	X
24.32	24	+.32	"	"	X	X
18.27	18	+.27	"	"	X	X
12.24	12	+.24	"	"	X	X
6.24	6	+.24	"	"	X	X
6.16	6	+.16	"	"	.08	.3" [illegible] ±5°C & 120 ±5°C, .45" [illegible]2°C
12.17	12	+.17	"	"	.07	
18.21	18	+.21	"	"	.06	
24.22	24	+.22	"	"	[illegible]	
30.16	30	+.16	"	"	.10	"
36.17	36	+.17	"	"	.12	"
42.19	42	+.19	"	"	.07	"
48.18	48	+.18	"	"	.03	"
54.15	54	+.15	"	"	.01	"
60.17	60	+.17	"	"	.04	"

TELECTRO-MEK, INC.

TEST RECORD, TRK-52-1 (300015-1) XMTR