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BOEING

SEATTLE, WASHINGTON

THE BOEING COMPANY

26

NUMBER D2-10889-1 Vol. 48B

UNCLASSIFIED TITLE ACCEPTANCE SUMMARY REPORT

ADDENDUM TO FTM 433, MODEL SPECIFICATION -- S-133-1007C

MODEL NO. WS 133A CONTRACT NO. AF04(647)-289

ISSUE NO. N/R ISSUED TO N/R

CLASSIFIED TITLE (STATE CLASSIFICATION) N/R

CHARGE NUMBER

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CLASS & DISTR. APPROVED BY N/R

RELIABILITY APPROVAL N/R (DATE)

2-5142

DOCUMENT, TITLE PAGE U3 4287 9000 REV. 10/61

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REFERENCE: Operating Procedure 234-021 Dated 5 Feb. 1962.

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SECTION

INTRODUCTION

1. SCOPE

a. This data identifies and describes the actual status of End Items, designated for First Article Customer Inspection or Team Acceptance review (Reference: AFBSD Exhibits 61-51 & 61-30). It includes any Waivers or Deviations that exist or are required for Non-Conformance Items. Status reporting will be at the delivery level unless otherwise noted.

b. Responsibility of maintenance to include Base Commitments is transferred to the Base Quality Control Planning Unit receiving the equipment.

2. PURPOSE

a. To establish a composite status for use by Base personnel to determine status of equipment received.

b. To serve as a record of First Article End Item Acceptance as required by BSD-STL and AFQC at Seattle for delivery to Base Installations.

GENERAL INFORMATION

This addendum to D2-10889-1, Vol. 48 document is released to cover rework of the 43 section for FTM 433 per CCP 886, CCP 1049, CCP 1158, CCP 1128, and PRR 4290.

SECTION II

CERTIFICATION OF EQUIPMENT COMPLETION

The undersigned, being Chairman of the AFBSD, WS133A Acceptance Team, certifies the following:

1. The equipment described below is complete to the extent indicated on the Transfer or Shipping Authorization Form and its addenda.

2. The equipment is suitable for shipment to the location described below, under the jurisdiction of the Boeing Company for future test and/or work as required to satisfy the contract specified below.

Equipment Model No. **21-50122-33 Equipment Serial No. M433

Equipment Nomenclature R&D Sub-System Assy.

Destination BATC Contract Affected AF04(647)-289

T/S Authorization Voucher No. EU11745

AFBSD Acceptance Team Chairman

**21-50122-33 less 45,47,49 Sec. & Components previously accepted (Ref. D2-10889, Vol. 48) per T/S Authorization Voucher No.'s EU 9744, EU 9745, EU 9746

SECTION II

THE BOEING COMPANY AND SPACE TECHNOLOGY LABORATORIES

TECHNICAL CERTIFICATION

EQUIPMENT MODEL NO. **21-50122-33 S/N M433

NOMENCLATURE R&D Sub-System Assembly

The undersigned has reviewed the Engineering Data on the subject equipment and certifies the following:

1.*** The equipment is technically adequate to perform its intended function.

2. The equipment meets all the specifications and requirements of Model Specification S-133-1007C Instrumentation Sub-System-Airborned R&D WS-133A, dated December 9 1961, including the approved SCN's listed on page 2a, with the exception of the Waivers and Deviations pages 1 through 2 in D2-10889, Volume 48B, Section X, Acceptance Summary Report.

*** With the exception of the MISTRAM transponder-filter system.

ENGINEERING REPRESENTATIVE FOR THE BOEING COMPANY

NOT REPRESENTED
REPRESENTATIVE FOR SPACE TECHNOLOGY LABORATORIES

**21-50122-33, less 45,47, 49 Section & Components previously accepted (Ref. D2-10889, Vol. 48) Per T/S Authorization Voucher No's EU 9744, EU 9745, EU 9746

SECTION II

APPROVED SPECIFICATION CHANGE NOTICES TO S-133-1007 C

APPROVED SCN's

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CERTIFICATION FORMS

Conditions of Acceptance

A condition of acceptance is that prior to shipment the following portions of the MISTRAM Subsystem must be removed:

	Part No.
MISTRAM Transponder and Filter Assy.	25-28056-2
Waveguide Assembly	25-27648-13
Waveguide Assembly	25-27648-14

In addition, P319 must be secured to withstand flight environment and a weight and balance test performed.

Comments

The description and record of the MISTRAM deficiencies is contained on Waiver page 1, Section X.

The authority for this action is AFPR direction.

6/12/63

6/12/63

AIR FORCE QUALITY CONTROL CERTIFICATION OF EQUIPMENT READY

FOR ACCEPTANCE TEST

EQUIPMENT PART NO.	SERIAL NO.	NOMENCLATURE
*21-50122-33	M433	R&D Sub-System Assy.

The undersigned has reviewed the equipment and its associated records

1. VISUAL AND PHYSICAL INSPECTION OF EQUIPMENT

A.	Finish Satisfactory	Yes (X)	No ( )
B.	Workmanship Satisfactory	Yes (X)	No ( )
C.	Freedom from Damage	Yes (X)	No ( )
D.	Installation Complete Except as Noted on Contractor's Shortage and/or Incomplete List.	Yes (X)	No ( )
E.	Authorization for Shortage or Incompletes Noted in Item "D" has been received.	Yes (X)	No ( )

2. SPECIFICATION AND DRAWING STATUS

A.	All Applicable Specs have been complied with Except as Noted on Contractor's Request for Waiver or Deviation List.	Yes (X)	No ( )
B.	All Documents and Specs have been Approved by AF/BSD, or Waivers obtained.	Yes (X)	No ( )

3. BAC Acceptance Tags (BAC Form U3-4001-5000) have been properly Validated and Affixed to the Equipment. Yes (X) No ( )

4. All Test Equipment Utilized in Conducting Acceptance Tests were properly Calibrated. Yes (X) No ( )

**21-50122-33, less 45,47,49 Sec. & Components previously accepted (Ref. D2-10889, Vol. 48) Per T/S Authorization Voucher No's. EU 9744, EU 9745, EU 9746

SIGNATURE Joe S Peha 6-11-3 SIGNATURE L. Manchesini 6/14/3

NAME (Print) JOE S. PEHA NAME (Print) L. Manchesini

Boeing Company
Quality Control Representative
Seattle, Washington

Air Force Quality Contol
Air Force Plant Representatives Office
Boeing Company
Seattle, Washington

REVISED _____

US 4200 2000 (WAS BAC 413101)

SECTION III

EQUIPMENT IDENTIFICATION FORM

DATE 8-11-63

GTM or FTM SERIAL NO. FTM 433

MODEL or EQUIPMENT SPECIFICATION S-133-1007-C

TOP DRAWING 21-50122

PART NUMBER 21-50122-33

NOMENCLATURE R&D Sub-System Assembly

INSTRUMENTATION CONFIGURATION LOG

MISSILE M433

SECTION NO. 43

NO.	MEAS. CODE	NOMENCLATURE	NAME OF MFG.	EQUIPMENT SERIAL NO. (BAC/MFG)	PART NUMBER	WIRE EQUIP ITEM NO.	INSTL. DATE	M&IR USED ON.
1	A011S	Strain Gage	Baldwin Lima Hamilton	Z01151	BAC-S-44A-1	MT102	6-22-2	25-15187-9000
2	A511S	Strain Gage	Baldwin Lima Hamilton	Z01152	BAC-S-44A-1	MT186	6-22-2	25-15187-9000
3	A012S	Strain Gage	Baldwin Lima Hamilton	Z01153	BAC-S-44A-1	MT103	6-22-2	25-15187-9000
4	A512S	Strain Gage	Baldwin Lima Hamilton	Z01154	BAC-S-44A-1	MT187	6-22-2	25-15187-9000
5	Low	Low Pass Filter	Sigma	010886/63	LPF 12B	A91	10-12-2	25-17869-35
6		Event Marker	Electro. Dev.	020791/241	10-20401-1	A60(R1)	10-14-2	25-16462-8
7		Event Marker	ASCOP	800591/364	10-20401-1	A60(R2)	10-14-2	25-16462-8
8		Event Marker	ELECTRO DEV. CORP.	80088/210	10-20401-1	A60(R3)	10-14-2	25-16462-8
9		Event Marker	Electro Dev. Corp.	020800/449	10-20401-1	A60(R4)	10-14-2	25-16462-8
10		PCM/FM R.F. Unit	UED	021116/560	10-20402-40	A83	10-22-2	25-17866-34
11		Box, Multiplexer Progm.	Radiation	0060RS/0004	10-20402-41	A22	10-11-2	21-50031-4
12		Multiplexer Box	Radiation	0063RP/0006	10-20402-42	A-26	10-11-2	21-50031-14

INSTRUMENTATION CONFIGURATION LOG

MISSILE M433
SECTION NO. 43

NO.	MEAS. CODE	NOMENCLATURE	NAME OF MFG.	EQUIPMENT SERIAL NO. (BAC/MFG)	PART NUMBER	WIRE EQUIP ITEM NO.	INSTL. DATE	MR&IR USED ON,
13		R.F. Package FM/FM	United Electro. Dev.	040730/621	10-20403-7	A80	10-25-2	25-17867-34
14		SCO Package	United Electro Dev.	040812/613	10-20403-8	A80	11-16-2	25-17867-34
15		SCO Package	United Electro. Dev.	040839/595	10-20403-8	A81	11-21-2	25-17867-34
16		R.F. Package FM/FM	United Electro Dev.	040689/611	10-20403-9	A81	10-25-2	25-17867-34
17		Triplexer	Allen Bradley Cal	800993/1055	10-20409	A82	10-5-2	25-15718-956
18		Voltage Regulator	Electro Dev.	020905/73	10-20410	UR-1	10-12-2	25-15718-956
19		Switch	Kinetics	021929/0144	10-20420-7	S5	1-30-3	25-33595-48
20		Transfer Switch	Kinetics	021304/0138	10-20420-8	S2	10-29-2	25-33596-22
21		Switch	Kinetics	800918/0142	10-20420-9	S6	10-2-2	25-33595-48
22		C/D Receiver	Motorola	800865/95	10-20428-2	A9	10-22-2	25-17869-35
23		C/D Receiver	Motorola	020454/117	10-20428-2	A5	10-22-2	25-17869-23
24		Linear Accelerometer	Statham	020379/11849	10-20454-5	MT84	10-1-2	25-21584-7

INSTRUMENTATION CONFIGURATION LOG

MISSILE M433

SECTION NO. 43

NO.	MEAS. CODE	NOMENCLATURE	NAME OF MFG.	EQUIPMENT SERIAL NO. (BAC/MFG)	PART NUMBER	WIRE EQUIP ITEM NO.	INSTL. DATE	MR&IR, USED ON.
25		Linear Accelerometer	Statham	040628/11863	10-20454-5	MT83	8-28-2	25-21584-8
26		Linear Accelerometer	Statham	040121/11270	10-20454-6	MT82	8-28-2	25-21584-4
27		DC Amplifier	Electro. Dev. Corp.	014730/101	10-20459-2	A29	10-26-2	25-17867-34
28		DC Amplifier	Electro. Dev. Corp.	018841/157	10-20459-2	A30	10-26-2	25-17867-34
29		Staging Switch	Electro Dev. Corp.	020164/0000174	10-20476	S1	10-29-2	25-33596-22
30		Thermocouple Ref. Jct.	Servo	019163/0000080	10-20478-11	HR6	9-28-2	25-22282-16
31		Thermocouple Ref. Jct.	Servo	019502/87	10-20478-11	HR3	10-5-2	25-22282-15
32		Transformer	United Electro Dev.	536	10-20833-26	A146	9-13-2	25-17062-35
33		Transformer	United Electro Dev.	574	10-20833-26	A147	9-13-2	25-17062-35
34		Multiplexer Programmer	Radiation	M433/0004	21-50031-4	A22	10-22-2	25-17866-34
35		Multiplexer	Radiation	0006	21-50031-51	A26	10-5-2	25-17866-34
36		C/D Antenna	Boeing	M438-2	25-15837-5	E7	10-16-2	25-15718-956

INSTRUMENTATION CONFIGURATION LOG

MISSILE M433
SECTION NO. 43

NO.	MEAS. CODE	NOMENCLATURE	NAME OF MFG.	EQUIPMENT SERIAL NO. (BAC/MFG)	PART NUMBER	WIRE EQUIP ITEM NO.	INSTL. DATE	MR&IR USED ON.
37		C/D Antenna	Boeing	M439-2	25-15837-5	E8	10-16-2	25-15718-956
38		C/D Antenna	Boeing	M439-3	25-15837-5	E6	10-16-2	25-15718-956
39		Telemetry Antenna	Boeing	M427-3	25-15850-9	E1	10-16-2	25-15718-956
40		Telemetry Antenna	Boeing	M433-2	25-15850-9	E2	10-16-2	25-15718-956
41		Telemetry Antenna	Boeing	M433-3	25-15850-9	E3	10-16-2	25-15718-956
42		Bridge Compl. Network	Boeing	4 of 19/M428	25-25223-902	A54	10-4-2	25-15718-956
43		Bridge Compl. Network	Boeing	10 of 19/M428	25-25223-902	A55	10-4-2	25-15718-956
44		Bridge Compl. Network	Boeing	17 of 19/M429	25-25223-902	A108	10-4-2	25-15718-956
45		Bridge Compl. Network	Boeing	17 of 19/M427	25-25223-902	A109	10-4-2	25-15718-956
46		Mistram Antenna	Boeing	M442-1	25-25518-14	E9	5-8-3	25-15718-956
47		Mistram Antenna	Boeing	M433-1R	25-25518-14	E10	5-8-3	25-15718-956
48		VSWR Monitor	Boeing	M443	25-25843-13	A153	5-16-3	25-15718-956

INSTRUMENTATION CONFIGURATION LOG

MISSILE M433
SECTION NO. 43

NO.	MEAS. CODE	NOMENCLATURE	NAME OF MFG.	EQUIPMENT SERIAL NO. (BAC/MFG)	PART NUMBER	WIRE EQUIP ITEM NO.	INSTL. DATE	M&IR USED ON.	
49		Waveguide Assy.	Technicraft	800601/2186T	25-27648-1	W2	11-8-2	25-15718-956	
50		Waveguide Assy.	Technicraft	800562/2180X	25-27648-15	W3	5-16-3	25-15718-956	
51	1	Waveguide Assy.	Technicraft	800418/5880Y	25-27648-13	W1	5-16-3	25-25493-4	R
52	1	Waveguide Assy.	Technicraft	800396/0666X	25-27648-14	W3	5-16-3	25-25493-4	R
53	1	Mistram Trans. & Fil.	GFE	00003R	25-28056-2	See lines 55 & 54	5-28-3	25-25493-7	R
54	1	Transponder	GFE	59	7641450G1 Mod A	A151	5-28-3	25-28056-2	R
55	1	Filter	GFE	2	7641481G1	A152	5-28-3 *	25-28056-2	R
56		Filter	Genistron	511	25-28059-1	A181	10-12-2	25-15718-956	
57		Matching Unit	Boeing	M433	25-34555-6	A51	10-17-2	25-33594-31	
58		Power Splitter	Boeing	M433	29-13515	A85	5-6-3	25-15187-9012	
59		Capacitor	Boeing	M432	29-21662-1	A187	10-29-2	25-33596-22	

1 SEE SEC. II P. 3 & SEC. V P. 1 R

SECTION III-B

ENGINEERING DRAWING INDEX

MISSILE SECTION 43 (M433)

Indenture

1 2 3 4 5 6

PART NUMBER	NOMENCLATURE
21-50122-33	R&D Sub-System Assy. AMR-FTM
25-15718-43	R&D Section Assy.
25-20600-43	Compartment Assy.
25-16196-6	Ant. Instl.-Tele. Sec. 43
25-15850-9	Ant. Tele-Assy. of
25-16197-4	Ant. Instl.-C.D. Sec. 43
25-15837-5	Ant. C.D. Assy. of
29-13522	Support Bracket Assy. of
29-13542	Antenna-Command Destruct Assy. of
25-19562-6	Marking Instl.
25-27080-3	Duct. Instl.
25-27048-2	Channel-Assy. of
25-27060-1	Duct-FM Tray Cooling-Assy. of
26-11826-1	Clamp-Assy. of
26-11830-1	Hat Sec.-Assy. of
26-11835-1	Clamp-Assy. of
26-11836-1	Clamp-Assy. of
26-11852-1	Filler-Assy. of
26-11853-1	Filler-Assy. of
29-20499-4	Clamp-Assy. of
29-20500-4	Clamp-Assy. of
25-26852-64	Duct-Assy. of Opt. to 25-27060-1
25-26852-62	Filler-Assy. of Opt. to 26-11852-1
25-26852-63	Filler-Assy. of Opt. to 26-11853-1
25-15187-223	Instl. Sec. Assy.
25-16465-20	Struct. Instl. Peripheral Equip. Supt.
26-10260-3	Base Plate Assy. of
29-21032-5	Tray-Assy. of
29-19463-3	Tray-Assy. of
26-8362-2	Support Brkt.-P.C.M. Tray Assy. of
29-19464-6	Tray-Assy. of
29-19462-4	Wire-Tray Assy. of
29-20839-1	Tray-Assy. of
29-19461-1	Aft. Wire Tray Assy. of
25-23297-11	Channel-Equip. Support Assy. of
29-18417-5	Bracket-Assy. of
26-10794-1	Angle-Assy. of
26-10795-1	Support Angle-Assy. of
26-10794-4	Angle-Assy. of
29-18417-8	Bracket-Assy. of
26-9358	Tray Assy. of
26-9450	Bracket-Wire Tray Support Fwd. Assy.
26-9463	Tray Support PCM Tray Assy. of
29-16439-1	Bracket-Wire Bundle Support Assy. of
29-15355	Support Fitting PCM Tray Assy. of
29-15617	Fitting Accelerometer Support L.H. Assy. of
29-15619	Fitting Accelerometer Support R.H. Assy. of

SECTION III-B

ENGINEERING DRAWING INDEX

MISSILE SECTION 43 (M433)

Indentures
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PART NUMBER	NOMENCLATURE
26-8365-4	Fitting Assy. of
29-16577-1	Tube-Assy. of
29-15595-4	Bracket Assy. of
29-14031-7	Fitting-Assy. of
29-14031-16	Fitting-Assy. of
29-14031-20	Fitting-Assy. of
29-14031-25	Fitting-Assy. of
29-14031-17	Fitting-Assy. of
29-13452-11	Fitting-Attach, C.D. Tray-Assy. of
29-13452-12	Fitting-Attach, C.D. Tray-Assy. of
29-13450-7	Fitting-Attach, Telemetry Tray, Assy. of
29-13450-8	Fitting-Attach Telemetry Tray, Assy. of
29-20486-1	Bracket Assy. of
29-20569-1	Bracket Assy.
26-11859-1	Support Assy.
26-11863-1	Support Assy.
25-20538-7	Insulation Instl.
25-20537-18	Plug Instl.
26-12135-1	Plate Bearing Assy. of
25-20537-21	Equipment & Instl. Strain
BAC-S44A-1	Strain Gages
25-28834-34	Wire & Equipment Instl.
25-21800-55	Coaxial Cable Bundle Tele. Assy. of
25-21800-56	Coaxial Cable Bundle Tele. Assy. of
25-21800-57	Coaxial Cable Bundle Tele. Assy. of
25-21800-25	Coaxial Cable Bundle Tele. Assy. of
25-21800-44	Coaxial Cable Bundle Tele. Assy. of
25-21800-45	Coaxial Cable Bundle Tele. Assy. of
25-21800-46	Coaxial Cable Bundle Tele. Assy.of
25-21800-47	Coaxial Cable Bundle Tele. Assy. of
25-21800-48	Coaxial Cable Bundle Tele. Assy. of
25-21800-49	Coaxial Cable Bundle Tele. Assy. of
25-21800-53	Coaxial Cable Bundle Tele. Assy. of
25-21800-24	Coaxial Cable Bundle Tele. Assy. of
25-21584-4	Accel. Bundle-Assy. of
10-20454-6	Linear-Accelerometer
25-21584-7	Accel. Bundle-Assy. of
10-20454-5	Linear-Accelerometer
25-21584-8	Accel. Bundle-Assy. of
10-20454-5	Linear-Accelerometer
25-28059-1	Filter-Assy. of
25-22282-15	Cable-Assy. of
10-20478-11	Ref. Junction Assy.
25-22282-16	Cable-Assy. of
10-20478-11	Ref. Junction Assy.
25-25223-5	Bridge Completion Network

SECTION III-B

ENGINEERING DRAWING INDEX

Indenture MISSILE SECTION 43 (M433)

1 2 3 4 5 6 PART NUMBER	NOMENCLATURE
25-33595-86	Wire Bundle Comp. Assy. of
10-20420-7	Switch-Assy. of
10-20420-9	Switch-Assy. of
10-20483-4	Protective Cover Connector
10-20483-1	Connector-Umbilical
10-20410	Voltage Regulator
10-20409	Triplexer
25-33185-72	Elect. Bundle
29-24153-11	Shield-Cover Wire Bundle Assy. of
29-24153-1	Shield Base Wire Bundle Assy. of
29-21390-1	Tray-Assy. of
29-21390-2	Cover-Assy. of
29-23567-1	Hat Sec.-Assy. of
25-25496-7	Wave Guide & Antenna Instal.
25-25843-13	Wave Guide-Dummy Monitor Assy. of
25-25518-14	Antenna
25-27648-1	Wave Guide Assy. of
25-27648-15	Wave Guide Assy. of
25-27648-14	Wave Guide Assy. of
25-27648-13	Wave Guide Assy. of
26-11971-1	Clamp Assy.
29-20784-1	Clamp Assy.
29-20784-2	Clamp Assy.
29-20784-3	Clamp Assy.
29-20757-1	Clamp Support Assy.
25-16400-13	Tray Instl.-FM/FM
25-17867-34	Tray Assy.-FM
25-33596-39	Wire Bundle Assy.
29-21662-1	Capacitor-Assy. of
10-20476	Switch Staging
10-20420-8	Switch Transfer & Test
25-16406-52	Tray Structure - Assy. Calibrate
29-15166-4	Fitting-Assy. of
29-15183-4	Fitting-Assy. of
29-16466-1	Clamp-Assy. of
10-20403-8	VCO Package
10-20403-9	R.F. Package
10-20403-7	R.F. Package
10-20459-2	Amplifier D.C. Signal A29
10-20459-2	Amplifier D.C. Signal A30
29-15475-16	Base-Assy. of
29-15475-18	Cover-Assy. of
25-16402-7	Tray Assy. Command Destruct
25-17869-35	Tray Assy.-C.D.

SECTION III-B

ENGINEERING DRAWING INDEX

MISSILE SECTION 43 (M433)

Indenture
1 2 3 4 5 6

PART NUMBER	NOMENCLATURE
25-16408-27	C.D. Tray-Assy. of
29-15293-2	Fitting-Assy. of
29-15290-1	Fitting-Assy. of
29-15925	Splice Box-Assy. of
25-17062-25	Bundle Assy.
25-17062-26	Bundle Assy.
25-17062-35	Bundle Assy.
10-20833-26	C.D. Isolation Transformer
10-20428-2	Receiving Set C. Range Safety
LPF-12B	Low Pass Filter
29-15925-1	Cover Assy.
29-15494-7	Cable Support-Assy. of
29-15494-8	Cable Support-Assy. of
29-16792-1	Box-Assy. of
26-9969-1	Cover Assy. of
25-29817-1	Duct Instl. Mistram Tray Sec. 43
29-22596-1	Duct-FM Cooling Mistram Tray Assy. of
26-11790-1	Retained Screw Assy.
25-12935-1	Flexible Tube Assy.
29-22556-1	Angle-Support Cooling Air Duct., FM Assy. of
29-22556-2	Angle-Support Cooling Air Duct., FM Assy. of
25-16401-12	Tray Instl.-Tracking Beacon
25-25493-4	Tray Assy. Mistram
25-25494-1	Tray Structure Assy.
25-11912-2	Rack-Stowage Mistram Wave Guide Assy. of
29-20330-1	Fitting R.H. Tray Attach., Assy. of
29-20331-1	Fitting L.H. Tray Attach, Assy. of
29-20381-1	Guide-Mistram Tray Assy. of
29-20756-2	Wire Support-Tray Mistram, Assy. of
25-25495-1	Elect. Cable Bundle Mistram Tray Assy. of
25-25495-2	Elect. Cable Bundle Mistram Tray Assy. of
29-20756-1	Wire Support Tray Assy.
25-28056-2	Receiver-Transmitter Transponder & Filter
25-16199-15	Tray Instl. PCM/FM
25-17866-34	Tray Assy. PCM
25-16143-122	PCM Tray Struct.
29-14046-2	Fitting-Assy. of
29-14047-2	Fitting-Assy. of
25-27040-1	Duct-Assy. of
25-26852-10	Duct-Assy. of (Opt. to 25-27040-1)
29-20417-1	Duct-Assy. of
25-26852-7	Duct-Assy. of (Opt. to 29-2041701)
10-20402-40	RF Unit (A83)
29-15585	Base Assy. of

SECTION III-B

ENGINEERING DRAWING INDEX

MISSILE SECTION 43 (M433)

Indenture 1 2 3 4 5 6 PART NUMBER	NOMENCLATURE
29-15586	Support Base Assy. of
29-15616	Support Clamp-Assy. of
29-16095	Cover-Support Assy. of
29-16097	Liner Instl. PCM Tray
29-15585-10	Cover Assy. of
29-15584-16	Cover Assy. of
29-15585-16	Cover Assy. of
25-33594-57	Elect. Cable Bundle PCM Assy. of
25-34555-6	Matching Unit Modular Assy. of
29-14185-4	Box Assy. of
29-26811-1	Clamp Support Assy. of
29-26838-1	Clamp Assy. of
29-26840-1	Terminal Board Assy. of
25-34002-1	Module-Assy. of
25-34054-1	Module-20V Pwr. Mon. Assy. of
25-34055-1	Module-Dest. V. Divider Assy. of
25-34556-1	Module-Calorimeter Cal. Assy. of
25-34019-1	Module Battery Divider Assy. of
29-25258-1	Module Trigger Network Assy. of
25-16462-8	Event Marker-Instr. Assy. of
10-20401-1	Event Marker
29-15345-13	Support Assy. of (Optional to -6)
29-15345-6	Support Assy. of
25-33185-95	Elect. Bundle Patch Plug Assy. of
25-33185-97	Elect. Bundle Patch Plug Assy. of
25-33185-98	Elect. Bundle Patch Plug Assy. of
25-33185-78	Elect. Bundle Patch Plug Assy. of
25-33185-99	Elect. Bundle Patch Plug Assy. of
25-33185-66	Elect. Bundle Patch Plug Assy. of
25-33185-65	Elect. Bundle Patch Plug Assy. of
25-33185-64	Elect. Bundle Patch Plug Assy. of
21-50032-1	PCM/FM Telemetry Components Opt. 21-50033-1
21-50031-1	PCM/FM Telemetry Components Opt. 21-50033-1
21-50034-1	PCM/FM Telemetry Components Opt. 21-50033-1
21-50033-1	PCM/FM Telemetry Components
21-50033-4	Multiplexer-Programmer Assy. of
10-20402-41	Multiplexer-Programmer Box
10-20402-53	DC to DC Converter, Sync.
10-20402-73	12V Voltage Regulator #1
21-50033-51	Multiplexer, Assy. of
21-50033-7	Multiplexer, Sub-Assy.
10-20402-42	Multiplexer Box
10-20402-79	50MV Amplifier & Clamp Assy.
10-20402-80	5V Amplifier & Clamp Assy.
10-20402-81	10MV Amplifier & Clamp
25-15799-25	Command Destruct Battery

SECTION III-B

ENGINEERING DRAWING INDEX

MISSILE SECTION 43 (M433)

Indenture 1 2 3 4 5 6 PART NUMBER	NOMENCLATURE
29-15639	Wire Bundle Assy. of
25-15773-23	Case-Batt., Assy. of
29-17982-2	Captive Fastener-Assy. of
25-19501-9	Electrolyte Kit
25-25173-8	Battery Tray-Instr. Sec., Assy. of
25-25172-4	Cover Assy. of
25-25236-1	Electric Cable Bundle Assy. of
25-25236-2	Jumper Assy. of
25-25236-3	Jumper Assy. of
25-25174-13	Case-Batt. Tray Assy. of
29-13708-1	Brkt. FT. Support Battery Tray Assy. of
29-13717	Fitting Assy. of
26-8372	Retainer Assy. of
29-19218-1	Support Flange Battery Tray Assy. of
29-19285-4	Resistor Package Assy. of
10-20439-7	Cartridge Assy.
10-20439-8	Cooling Valve

SECTION IV-C

COMMITTED ENGINEERING CHANGES

CHANGE	STATUS	REMARKS	LAST PO.	DDRO STATUS DATED	COMP/INC
CCP					
886	Comp.	Comp. releases for FTM 433 on Pg. 4B Dated 3-22-63.	5	3-26-3	Comp.
1049	Comp.	Comp. release for FTM 433 on Pg. 9 dated 4-17-3.	21	6-15-63	Comp.
1128	Comp.		1	4-5-63	Comp.
1158	Comp.	Phase A Comp. for FTM 433 on Pg. 5 Dated 5-20-3.	5	5-20-3	Inc.
PRR					
4290	Comp.		6	4-23-3	Comp.

Test Engineering Acknowledgement of Configuration Status

SECTION VII-A

CONTRACT SPECIFICATION NON-CONFORMANCE ITEMS (FUNCTIONAL)

MISSILE SECTION 43 (M433)

MCAIR PART NUMBER	JOB NUMBER	SERIAL NUMBER
21-50122-93433	56542R	M433

UER's U 186791 (Page 29)
U 186792 (Page 30)

Discrepancy:

Ref: D2-7969, Vol. 133, Sec. O&2 para. 6.1.7 Run 4
During "Y" axis vibration test Run 4, Per above referenced section, a loss of lock on range & calibrate phase detector outputs occurred twice. #1 at 320 CPS on upsweep and 160 CPS on down sweep.

The above referenced paragraph states that any loss of lock on range and calibrate phase detector outputs shall be referred to M.R.B. for dispostion.

Fix: See D2-10889-1, Vol. 48B, sec. X, Page 1 for waiver.

21-50122-93433	56542R	M433

UER U186797

Discrepancy:

Ref: D2-7969, Vol. 133, Sec. 3, Run 2, Para. 6.1.7

During "X" Axis vibration test run #2, per Ref. para., a loss of lock on the calibrate phase detector output occurred 12 times, eight on the upsweep, two between upsweep and down sweep 500 cycles, and two on down sweep. The above referenced para. states that any loss of lock on range and calibrate phase detector outputs shall be referred to MRB for disposition.

Fix: See D2-10889-1 Vol. 48B, Sec. X, Page 1 for waiver.

21-50122-93433	56542R	M433

UER 186806

Discrepancy:

The following listed channel was out of tolerance per D2-7969, Vol. 133 Run #2, computer dump 431 ON "X" Axis vibration of 43 sec. M433.

I 033 E

Fix: See D2-10889-1 Vol. 48B Sec. X, Page 2 for Waiver

SECTION VII-A

CONTRACT SPECIFICATION NON-CONFORMANCE ITEMS (FUNCTIONAL)

MISSILE SECTION 43 (M433)

MAIR PART NUMBER	JOB NUMBER	SERIAL NUMBER
21-50122-93433	56542R	M433

UER U 186802

Discrepancy:

Ref: D2-7969, Vol. 133, Sec. 2, Run #4, Computer Dump #443

The following listed channels were out of tolerance per above reference

I 031 E, I 033 E, G 082 E, A 011 S

Fix: See D2-10889-1, Vol. 48B, Sec. X, Page 2 for waiver.

SECTION VII-B

EQUIPMENT FAILURES

MISSILE SECTION 43 (M433)

M&IR PART NUMBER	JOB NUMBER	SERIAL NUMBER
21-50122-93433	56542R	M433

UER U 186743

Discrepancy:

Ref D2-7969, Vol. 133, Sec. 2, P. 5.1.3

Channel I032E failed to meet tolerances during test set prep as stated in ref document.

Tol: .3V Reading taken 1.05V
.9V

Fix: Removed transponder & filter assy. 25-28056-2, S/N 0002R & replaced with 25-28056-2 S/N 0003R.

21-50122-33(43)	39436R	M433

UER U186778

Discrepancy:

Ref. UER U186780 P/N 21-50122-93433 J/N 56542R

During "Y" vibration channels G063E & G072E were out of tolerance

Fix: Removed A26 Box (Multiplexer) P/N 21-50031-51 S/N 0004 and installed P/N 21-50031-51, S/N 0006

SECTION VIII

(M433)

SHORTAGES

Note: See Conditions of Acceptance Sec. II, page 3 and Waiver, Sec. X, page 1.

Test Engineering
Acknowledgement of
Configuration Status

ENGINEERING WAIVERS & DEVIATIONS

M 433

Date: 6/7/63

Missile Effectivity FTM 433 Event Record No.:

Spec. or Doc. No.: D2-3603-3 Revision: Date: 12-9-61

Spec. or Doc. Title: Model Specification S-133-1007C - Instrumentation Subsystem - Airborne - R&D WS-133A, WS-133A-M

Waiver X Deviation _____

Page No: 145 Paragraph No.: 4.2.5.3.11

Description: Allow delivery of the Mistram Subsystem that will not meet the Phase lock requirements of the Vibration test.

Reason: To support Present delivery schedule. The General Electric representative investigating test failures of MISTRAM with Minuteman certifies that this transponder is flight worthy and will meet flight requirements as it now operates. Inasmuch as the MISTRAM does not meet the model specification requirements, Boeing cannot assure that the equipment will operate satisfactorily in flight.

NOTE: Portions of the MISTRAM Subsystem are to be removed prior to shipment to AMR per AFPR directions. See Condition of Acceptance.

Sht. 1 of __

Date: 6/10/63

Missile Effectivity FTM 433 Event Record No.:

Spec. or Doc. No.: D2-3603-3 Revision: Date: 12-9-61

Spec. or Doc. Title: Model Specification S-133-1007C - Instrumentation Subsystem - Airborne - R&D WS-133A, WS-133A-M

Waiver X Deviation _____

Page No: 145 Paragraph No: 4.2.5.3.8

Description:

Allow an out-of-tolerance condition during the 43 Section x-axis and y-axis vibration tests for the following telemetry measurements:

Measurement Code	Reason	Specification Tolerance % Full Scale	Measured Accuracy % Full Scale Section 43 Y-Axis	Section 43 X-Axis
G082E	Note 1	1.1	+ 1.20	
I031E	Note 1	1.0	- 1.59	
I033E	Note 1	1.0	+ 1.35	+ 1.26
A011S	Note 2	1.7	- 2.11	

Reasons:

Note 1 - These measurements are not sufficiently out-of-tolerance to appreciably degrade system performance.

Note 2 - A011S oscillograph strip-out revealed a response at an 80 cps. This is a normal response to strain for this measurement and indicates satisfactory performance.

Sht. 1 of ___