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Report No. 131500-603 14 January 1977

INTERIM TEST REPORT
ON THE SHOCK-DROP TEST
OF THE
AN/TRN-41 TACAN NAVIGATIONAL SET

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Hanscom Air Force Base
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Contract No. F19628-75-C-0200 CDRL Item A00Y

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INTERIM TEST REPORT ON THE SHOCK-DROP TEST OF THE AN/TRN-41 TACAN NAVIGATIONAL SET

This test report is an interim report describing the failure and the proposed corrective action resulting from the Shock-Drop test on the AN/TRN-41 TACAN Navigational Set. After the corrective action has been taken, these tests will be repeated.

- 1. Test Identification. Transit drop test of 48 inches, as defined in Appendix V-A (shock test procedure) of the Equipment Test Plan for Navigational Set, TACAN, AN/TRN-41.
- 2. Functional Purpose of Test. AN/TRN-41 system qualification.
- 3. Test Objectives. To demonstrate that the system will meet the requirements of Specification No. 404L-701-5017A, Part I, paragraph 3.2.5.2.1 (20 August 1976).
- 4. Description of Test Article. The AN/TRN-41 system is comprised of three manportable packages for this test, as follows:

Receiver-Transmitter, Radio, RT-1202/T --- 34.5 pounds

Manportable Configuration of Antenna, AS-3132/T -- 39.5 pounds (consists of antenna RF cable and manportable packing).

Manportable Configuration of Ancillary Group -- 37.5 pounds, consisting of the following:

Antenna Support Assembly, AB-1237/T BB-451 Battery and Adpater Interconnecting cables and ground stake Manportable packing

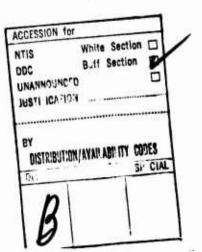
Each of the above three packages were dropped 48 inches as defined in the shock test procedure.

- 5. Summary of Test Results.
- a. Pre-shock Operational Test. The system passed successfully the pre-shock operational tests as defined in Appendix VII of the Equipment Test Plan for Navigational Set, TACAN, AN/TRN-41. The data sheets from these tests are included as part of this report; however, the post-shock test was not accomplished because of the damage incurred to the equipment during the test.
- b. Drop Test Receiver-Transmitter. This unit incurred major damage as the result of the drop test. An itemized list of damages noted by Quality Assurance is included as part of the data sheets. A study of the damaged RT indicates that there are three areas in which corrective action will be required in order for this unit to pass this test. These are as follows:
- (1) Rubber bumper blocks. These blocks failed to protect the RT on the rear heat sink side. The blocks were not large enough, which allowed the heat sink to hit the floor, causing a severe shock to the RT.

- (2) Card Rack. The card rack securing the seven circuit card assemblies deformed badly. All of the connectors used in securing the circuit cards broke; the card guides became twisted and deformed, and all circuit cards became loose.
- (3) Synthesizer Chassis. The mounting flanges on this assembly broke off; therefore, this assembly became loose and caused major secondary damage.
- c. Drop Test Antenna (Manportable Configuration). This unit incurred major damage as a result of the drop test. An itemized list of the damage noted by Quality Assurance is included as part of the data sheets. The major problem areas are as follows:
 - (1) The upper radome cracked.
 - (2) The lower radome cracked.
- (3) Damage was done to the 15 Hz and 135 Hz rotating drums, caused from making contact with the radome.
 - (4) Pedestal base broke.

After the test, the antenna was energized and the speed control and trigger generating circuitry were checked and found to be all right.

- d. Drop Test Ancillary Group (Manportable Configuration). An itemized list of the damage sustained by this item is included as part of the data sheets. The major problem areas are as follows:
 - (1) Tripod base casting was deformed slightly, making the bubble level inaccurate.
 - (2) The battery adapter handle was bent; however, it was still functional.
- e. Bench Handling Test. Because of the damage sustained by the units in the drop test and the redesign that will be required as a result of this damage, the bench handling test was not performed at this time, but will be performed after the redesign has been completed.
- 6. Description of Test Setup. Each of the three manportable units (RT, Antenna and Ancillary Group) was dropped 48 inches onto a two-inch thick plywood backed by concrete floor. The drop was accomplished using a quick-release hook and drop tester mechanism. Each drop was in line through the unit's center of gravity, and on the surfaces described in the test procedures.
- 7. Test Setup Diagrams/Photographs. See Attachment 1.
- 8. Test Equipment. None.
- 9. Test Data. See Attachment 2.
- 10. Test Condition. Not Applicable.



11. Discussion of Test Results.

a. Receiver-Transmitter (RT) Unit. The RT unit incurred major damage when it was dropped on the rear surface that mounts the heat exchanger. The rubber bumpers permitted the heat exchanger to strike the plywood floor with enough force to have an imprint of the exchanger on the floor. This severe shock deformed the rear of the case, broke the mounting of the synthesizer allowing it to float in the unit, and deformed the card cage so that the printed circuit cards became loose.

The rubber bumper blocks originally provided 1/8 inch clearance to the heat exchanger. This clearance has been increased by 1/2 inch and the area of these bumpers increased from 3.5 square inches to 9.0 square inches. The increase in depth and surface areas will prevent the heat sink from bottoming during drops.

The card rack has been redesigned to provide more rigidity so that the rack does not spring out of shape, allowing the cards to become loose and breaking the connectors. To increase the rigidity of the case, the aluminum composition and temper were changed, the rear connector plate was redesigned to one piece fastened to the side and top of the case, and the new front cover adds rigidity to the case by fastening to the sides at four places, in addition to supporting the printed circuit cards.

The synthesizer casting was redesigned to provide more rigidity and support at the top of the unit. The thickness of the mounting flange was increased to 1/16 inch and two bosses were added at the top of the casting to fasten to the braces. Braces were installed at the top of the unit from the front to the rear to provide support for the synthesizer and receiver.

To reduce the weight of the RT unit, lightening holes were added to the gussets between the front and rear panels and the chassis, to the chassis and to some of the brackets.

b. Antenna Unit. The antenna unit incurred damage with two types of drops. First, an angular drop on the upper radome such that the radome was deformed, damaging the 15 Hz and 135 Hz rotating drums. Second, the angular drop on the lower portion cracked the pedestal and lower radome.

The antenna weighed 33 pounds and the packing 6.5 pounds for a total of 39.5 pounds. The configuration of the antenna and pedestal placed the center of gravity away from the back pack. The shape of the pack and center of gravity were items that should be redesigned.

The antenna pedestal was redesigned by removing the compass and reducing its height. A nylon ring was added to the top of the radome to mount the compass during alignment. At all other times, the compass will be with the ancillary equipment. The design of the compass will change from the north seeking type to a 360° type – it will be the same compass that is used in the AN/TRN-26 system. The reduction in height of the pedestal allows the packing to be arranged so that the center of gravity is closer to the man's back.

The smaller pedestal is packed so that the drop shock is not concentrated on the flange of the pedestal, but distributed over the lower section of the antenna.

The upper radome was strengthened by adding two plies of fiberglass across the sides and top of the radome. This strengthening now prevents the radome from touching the 15 Hz and 135 Hz rotating drums.

The packing design effectively increases the density of the pack around the antenna. This was accomplished by sandwiching 1/2-inch polyethylene with polyurethane. Around the base, the polyethylene was 1-inch thick. In addition, a 1/2-inch polyethylene sheet was placed completely around the circumference of the antenna replacing the existing polyurethane. The interior dimensions remained the same and the same canvas pack was used.

An unofficial drop test on the antenna unit was made with the reduced pedestal, reinforced radome and stiffer packing material. The antenna unit passed this test. In an effort to reduce weight, an unreinforced radome was substituted in the antenna unit and dropped again. This substitution of radomes reduced the weight by one pound. The radome was fractured in two places, and the 135 Hz and 15 Hz drums were hit on the drop using the unreinforced radome.

Based on these tests, the final configuration of the antenna unit will include the one pound heavier reinforced radome. We are investigating other methods of packing, including air packing to reduce the weight.

c. Ancillary Group. The tripod and battery adapter handle were damaged during the drop test of the ancillary group.

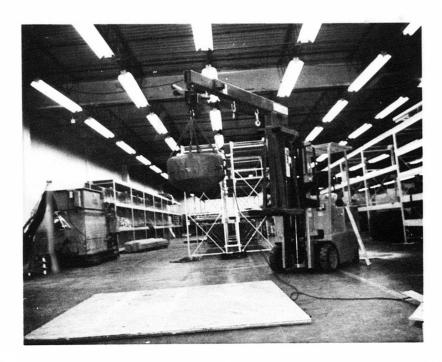
The legs of the tripod were fastened to the tripod base during this test. Each of the legs pierced the foam packing and damaged the canvas. This shock was transmitted by the leg to the base casting, and in one case, deformed the base at the point where the legs mount. The new packaging design will pack the three legs separate from the base. The antenna pedestal base was divided in two parts; one mounted and packed with the antenna unit providing protection to the connectors, and the second part packed in the ancillary group. This part of the antenna pedestal will be nested in the tripod base.

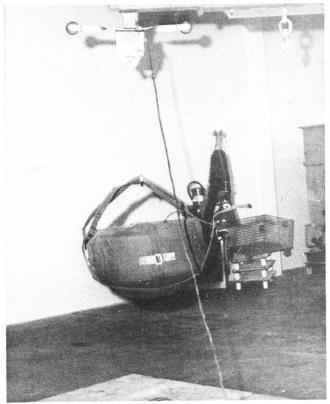
The tripod base casting will be modified so that the mounts for each leg will be shortened to the lowest height. This reduction will result in a slight weight savings.

The legs will be mounted to the antenna base using quick disconnect ball pins.

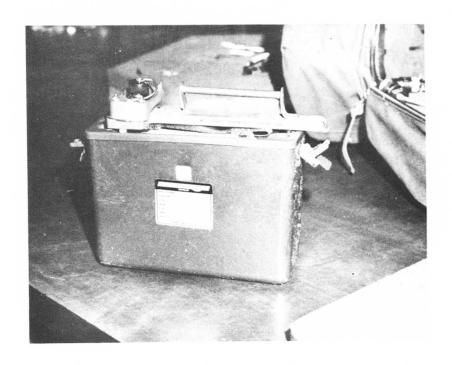
The density of the packing surrounding the battery and battery adapter will be increased. In addition, the battery adapter will nest in the packing.

ATTACHMENT 1 DROP TEST PHOTOGRAPHS





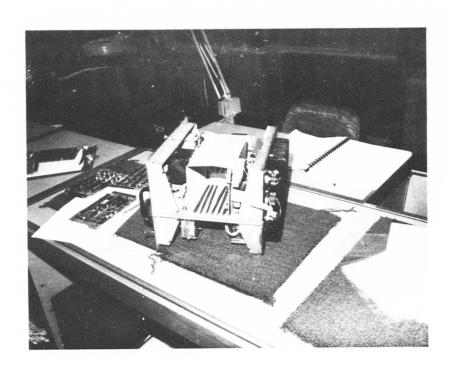
ANTENNA 48" DROP TEST

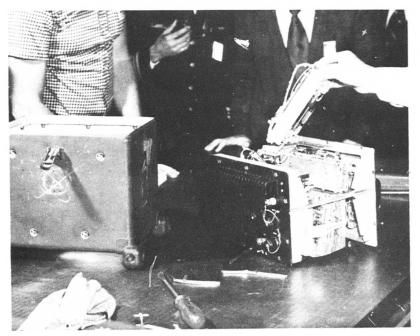


BATTERY AND ADAPTER AFTER 48" DROP TEST



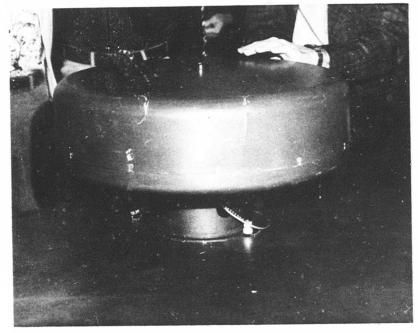
Inside antenna after 48" drop test





RT AFTER 48" DROP TEST





ANTENNA - AFTER 48" DROP TEST

ATTACHMENT 2 TEST DATA

DATA SHEET OPERATIONAL TESTS AN/TRN-41

Test PRE SHOCK TEST (4FT)

Date 12/14/76

System

SERIAL DOIL

Time 9:000 m

Tech 3Day

	Tech Survey							
Para, No.	Description	Pre Test	Test	Post Test	Requirements	Units		
6.1	Calibrated RF insertion loss PL = 31.5 dB	N/A	N/A	N/A	N/A	N/A		
6,2	Used in determining RF peak power. System turn on normal operation	L	Bechuse		Check if OK	N/A		
6.3.1	Antenna radiated signal 15 Hz 135 Hz	<i>L</i>	Dowe		Check if OK	N/A N/A		
6.3.2	Antenna Speed	<u>ز ل , ل ل ل</u>	1.3	Test	66.667 ±.133	ms		
6.4.1.1	Correct identity code Identity period	L	3	DRes	Check if OK 37.5 ± 3,75	N/A Seconds		
6.4.2	Peak power (1) Reading of peak power meter Pm = (2) Convert to dBm - 10 log Pm x 10 ³ = Pm dBm Total power output in dBm PmdBm + PL =	49.8 51.2	ADDITIONAL TESTION	System Flaces	N/A N/A 50 dBm	Watts dBm dB		
6.4.3.3	*Insertion loss see 6.1 above. Pulse count Pulse shape	7210	Aob		7200 ± 180	Counts		
	Width (50%) Rise time (10-90%) Fall time (90-10%)	3 52 m 3.0745 2 50 m;			3.5 ± 0.5 2 ± 0.25 2.5 ± 0.5	hz hz hz		
6.4.4.4	Pulse spacing Delay - 60 ±10 µs 15 Hz trig to first burst pulse.	1445			12,0 ± 0,1 Check if OK	μs		



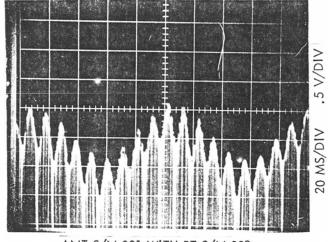
DATA SHEET OPERATIONAL TESTS

AN/TRN-41 (Continued)

				·	r	
Paro.	Description	Pre Test	Test	Post Test	Requirements	Units
6,4,5.3	Correct north Burst - 12 pulse pairs spaced 30 ± 0.1 µs	";(4)			Check if OK	
4.5.5	Delay 60 ± 10 µs - 135 Hz trig to first burst pulse				Check if OK	
4.5.6	Correct Aux burst - 6 pulse pairs spaced 24 ± 0.1 µs	34 (4)			Check if OK	
6.4,6.5	RT replies to 3300 interrogations	2050			≥2310 (Cou	11s/Secon
6.4.6.7	Demand only mode – times to switch from ON to STBY within 70 seconds	(-7 -			Check if OK	
6.4.6.8	STBY mode	v			Check if OK	
6.4.6.9	Demand Only mode – time to switch from STBY to ON ≤15 sec	1456			Check if OK	
6.4.6.10	ON AIR mode	L			Check if OK	
6.4.7.1	DME ONLY mode	L			Check if OK	
6.4.7.2	Switch from DME to TACAN	-			Check if OK	
6.4.8.1	Antenna Alarm - Within four seconds	-			Check if OK	
6.4.8.2	Alarm Reset	V			Check if OK	
6.4.8.3	RT Alarm - Within five seconds	i			Check if OK	
6.4.8.4	Alarm Res et	-			Check if OK	

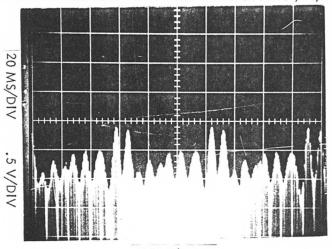
System Falled Shock Test so These Tests will Have to be Remain.

PRE SHOCK TEST - RADIATED DET SIGNAL 12/15/76



ANT S/N 001 WITH RT S/N 002

POST SHOCK TEST - RADIATED DET SIGNAL 12/16/76



ANT S/N 001

AN/TRI1-41 DATA SHEET FOR SHOCK

		CHECK TO SHO	W COMPLETION	INSPECTION AFTER TEST
ITEM	SERIAL NO.	DROP TEST	BENCH HANDLING	REMARKS
RECEIVER-TRANSMITTER	002	~	7 8000E	See attentul abut -
ANTENNA IN MANPORTABLE PACKAGE	001	~	י לער האיני י לער האיני שפני	is uttahid shut
ANTENNA SUPPORT ASSEMBLY CABLES AND BATTERY IN MANPORTABLE PACKAGE	201	~	, ord	See affeched shull -
DC POWER FILTER	glot iestes Ar Took Trook	_		-
he drop bots failed	cered at 1	sili etima l	a declinguised	and .
TECHNICIAN Dan	Da	<u> </u>	DATE	12/16/20
ENGINEER Blak	•		DATE	12/16/74
QA REPRESENTATIVE	Danie P.	Maile,	DATE	12-16-76
DCASD Jahn 71				12-16-76

RT POST DROP TEST INSPECTION SUMMARY -

Note - The RT was not opened and inspected after each drop. Instead the inspection was not made until after all the 4 foot drops had been completed; therefore, much of the damage in the RT was caused by drops being accomplished with loose parts inside (secondary failures). The primary failures are described in this report.

- 1- SYNTHESIZER CHASSIS The mounting flanges on this assembly broke off. Thus this assembly became loose inside the RT causing major secondary damage.
- 2- CARD RACK The card rack securing the 7 circuit card assemblies deformed badly. All of the connectors used in securing the circuit cards broke. The circuit cards came loose and as a result certain components on CCA were damaged. Card guides are twisted and deformed.
- 3- Rubber bumper blocks on the corners of the RT failed to protect the RT on the rear heat sink side blocks are not large enough and as a result the rear heat sink accrually hit the floor which caused a severe shock to the RT. It is believed that this resulted in most of the damage in the unit.

DISCREPANCY AND REWORK RECORD ACTIVITIES R.M.R. NO. _____ 2.1. IN OOD AFTER 4' DROP TEST. OPERATION REJECTED NO. DISCREPANCY RECORD/REWORK INSTRUCTIONS OPERATOR REJECT **ACCEPT** PM 131120-100 5/N 003 AS MOUNTING HURDWARE NAT NEAREST 413 (3) TURNS LOOSE 2 AS WIO & WILL HAVE HAD THE TOPS OF THE I.C. BROKEN OFF 3 J1 (41) TOP LIP OF CONNECTOR HAS BEEN DAMAGED SEVERAL PLACES 4. JI(41) TOP CENTER OF LIP BENT IN. 5 JI(41) PINS 11-12 824 THE "+24V" TERMINAL IS BENT. 7 ARI EZ BENT 8. ARI TOP COVER IS DENTED BENT, SCRATCHED & COVER IS NOT FLASH TO CHASSIS.

and the second second

R.M.R. NO.

OPERATION REJECTED		DISCREPANCY RECORD/REWORK INSTRUCTIONS	MRB	SCRAP	RWK	OPERATOR	REJECT	ACCEPT
	9	42 TOP PLACE SEVERAL						
		SCRATCHES THRU OUT						
	1		-	-	+			
	10	UZ TOP TAG LOOSE	-	-	+		-	
	//	UI TOP TAG LOOSE		L	L			
	+-		-	+	-			
	1/2	WI TOP COVER APPEARS TO	-	+	+			
		HAVE SHIFTED APPROX. 030"		上	上			
	+-'		1	-	1	-		
	1,2	WI PO (38) SOLDER CRACKEN	-	+	+			-
	-	WI POLSKI SOLDER CONTROL		1	t			+
				上				
	14	WI PI(39) CABLE SMASHED	-	+-	+			
	+-	ADAJACENT TO END DE	-	+	+			+
	T	A ONNECTOR						
					1			
	15	W2 P2 (36) SOLDER CRACKED	+	+	+	-		-
	+		+	+	+			
	16	W4 PI (32) SOLDER CRACKED	上		上			
	+		+	+	+			
	17	AS CORNER BY WIZ APPEARS		+	+			
		TO HAVE BEEN HIT		上	上			
		DE- LAMINATED	\perp	1	1			<u> </u>
	+		+	+	+			
	1	8 CHASSIS BOTHS HAVE THE	+	士	t			+ .
	_	MOUNT ING FLANGES	1	1	1			
		BROKEN OFF						

R.M.R. NO. _____

OPERATION REJECTED	NO.	DISCREPANCY RECORD/REWORK INSTRUCTIONS	MRB	SCRAP	RWK	OPERATOR	REJECT	ACCEP
	19	THE CHASSIS BELOW CPI						
		HAS (2) HALF MOON DENTS						81.5
		1/8x 5/1" & A CRACK 3/8"						
		LOCATED 3/8" FROM DENTS						
	20	THE R.F. GASKET HAS						
		LEST ITS SEALTN'S EFFECT						
		(5) PLACES.						
				_	_			
				_	_	· · · · · · · · · · · · · · · · · · ·		
·	21	UI LOOSE TO PLATE						
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	دد	CPI LOOSE TO PLATE			_			
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	23	THE THREADED STAND-OFF	_	_				
	 	IN THE CENTER OF THE	-	-	\vdash			
	├	PLATED THREADED OUT OF	-	ļ	-	<u> </u>		
	-	THE AY BOARD INSTEAD	_	-	-			
	-	OF THE MOUNTING	-	-	 			-
	╁	HARDWARE COMING OUT		-	├-			
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	\vdash		-		├			
-	24	L2 BINDING SCREW	-	 	├-			
	╀	BROKEN OFF	-	-	-			
	+-		-	H	-			
		111 00 (51)		-	-			
		W/1 P2 (56) COAX CABLE		-	-			
	╁╴	SPLIT & BENT "/4" FROM	 	\dagger	╁╴			
	+-	REAR OF CONNECTOR	+	\vdash	\vdash			
	-				T		 	
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	76	PULLED APART.		+	T			
	+	T WELLE W MF AR-/	-	 -	+-	 	-	1

R.M.R. NO. _____

OPERATION REJECTED	NO.	DISCREPANCY RECORD/REWORK INSTRUCTIONS	WR8	SCRAP	RWK	OPERATOR	REJECT	ACCEPT
	27	PIN DIDDE ASSY S/NOOL						
		J2 (56) WLOCKWASHER					31	
		J2 (56) WLOCKWASHER MISSING /W 131180-100						
	-							
	28	DIDDE ASSY II (55)						
		HAS (1) LOCKWASHER					<u> </u>	
		MIS SING.				· · · · · · · · · · · · · · · · · · ·		
	-0							
		COVER HAS SEVERAL		-				
		DEEP SCRATCHES		-	-			
		LOCATED ABOVE FLI						
	30	THE BRANKET FOR DIADE						
		MSSY, THE (2) MOUNTING						
		SCPEWS TO CHASSIS						
		WERE (2) THREADS LOOSE						
		3 NOW THE INBOARD						
	-	SCREW TS STRIPPED		-	-		<u> </u>	
	3/	THE (3) SCREWS FROM		-	├-		 	
	-	BRACKET TO DIODE ASSY		ļ.,	-		ļ	
	-	EACH WAS LOOSE BY /2		-	-	 		
		TURN.						
	32	P/N 131140-100 5/N 003	_	-	-			
		RECEIVER ASSY						
· · · · · · · · · · · · · · · · · · ·	<u> </u>	31(10) \$ 32 (11) FACH						
		HAVE (2) EXTRA FLAT WASHER	S	_				
		USED FOR MOUNTANG	_	_	1			
	1	HARDWARE	L.					
				1				

R.M.R. NO. ______

DISCREPANCY RECORD/REWORK INSTRUCTIONS 33 CI S C.3. TERRITARIA SHE BENT US° 34 WHEN THE RECETVER WAS THIS CAN PARTERS TO STRUCED TO THE ET. TO MAS CAN PARTERS SCREWS USED WITH NO FIRST WASHERS FOR LOCK- WASHERS. 35 WHEN RECETVER WAS REMAIND TOP LEFT SCREW MITSSING TOP SIGN UTWENS LOOSE ROTTOM REGHT TURNS LOOSE BOTTOM REGHT TURNS LOOSE STORE AMPLIFIED CIG CIT MEGATIVE END LEAD SROKE THE RODY OF CAPROTTOR ABOUT									
BENT 45° 34 WHEN THE RECETVER WAS THE THE STATE TO THE LT. IT MAS (3) PANHERS SCREWS USED WITH NO FLATWASHERS I/OR LOCK— WASHERS. \$5 WHEN RECETVER WAS REMOVED TOP LEFT SCREW MISSING TOP LEFT TOURNS LOOSE BOTTOM LEFT TOURNS LOOSE ROTTOM REGHT THENS LOOSE ROTTOM REGHT TOURNS LOOSE CIGAL CIT NEGATIVE END LEFT BROKE OFF AT BODY OF CAPACITOR TYPE CAPACITOR AS CILLOUT ABOUT 38 THE 149137-001 BORRD IS CLACKED IN TWO				MR8	SCRAP	RWK	OPERATOR	REJECT	ACCEPT
BENT 45° 34 WHEN THE RECETVER WAS THE THE STATE TO THE LT. IT MAS (3) PANHERS SCREWS USED WITH NO FLATWASHERS I/OR LOCK— WASHERS. \$5 WHEN RECETVER WAS REMOVED TOP LEFT SCREW MISSING TOP LEFT TOURNS LOOSE BOTTOM LEFT TOURNS LOOSE ROTTOM REGHT THENS LOOSE ROTTOM REGHT TOURNS LOOSE CIGAL CIT NEGATIVE END LEFT BROKE OFF AT BODY OF CAPACITOR TYPE CAPACITOR AS CILLOUT ABOUT 38 THE 149137-001 BORRD IS CLACKED IN TWO		53	CISCS TERMINALS ARE						
TNSTALLED TN THE LT. IT HAS (3) PANHEAD SCREWS USED WITH NO FLATWASHERS NOR LOCK- WASHERS. 35 WHEN RECETVER WAS REMOVED TOR LEFT SCREW MISSING TOR RIGHT YTURNS LOOSE BOTTOM LEFT 7 TURNS LOOSE BOTTOM RIGHT 3/4 TURN LOOSE CLOS C17 NEGATIVE EALD LEAD BROKE OFE AT BODY OF CAPACITOR 37 NOTE C3 IS SAME TYPE CAPACITOR AS CIGHOUT REOUE 38 THE 149132-OOL BORRD IS CLARKED IN TWO		1 :	L _						
TNSTALLED TN THE LT. IT HAS (3) PANHEAD SCREWS USED WITH NO FLATWASHERS NOR LOCK- WASHERS. 35 WHEN RECETVER WAS REMOVED TOR LEFT SCREW MISSING TOR RIGHT YTURNS LOOSE BOTTOM LEFT 7 TURNS LOOSE BOTTOM RIGHT 3/4 TURN LOOSE CLOS C17 NEGATIVE EALD LEAD BROKE OFE AT BODY OF CAPACITOR 37 NOTE C3 IS SAME TYPE CAPACITOR AS CIGHOUT REOUE 38 THE 149132-OOL BORRD IS CLARKED IN TWO		'							1
TNSTALLED TN THE LT. IT HAS (3) PANHEAD SCREWS USED WITH NO FLATWASHERS NOR LOCK- WASHERS. 35 WHEN RECETVER WAS REMOVED TOR LEFT SCREW MISSING TOR RIGHT YTURNS LOOSE BOTTOM LEFT 7 TURNS LOOSE BOTTOM RIGHT 3/4 TURN LOOSE CLOS C17 NEGATIVE EALD LEAD BROKE OFE AT BODY OF CAPACITOR 37 NOTE C3 IS SAME TYPE CAPACITOR AS CIGHOUT REOUE 38 THE 149132-OOL BORRD IS CLARKED IN TWO		4		<u>_</u>	<u>_</u> '	<u> </u>			
TT HAS (3) PANHERS SCREWS USED WITH NO FLATWASHERS 1/OR LOCK— WASHERS. SS WHEN RECETVER WAS REMOVED TOP LEFT SCREW MITSSING TOP RIGHT YTURNS LOOSE BOTTOM LEFT 7 TURNS LOOSE BOTTOM RIGHT 3/4 TURN LOOSE CIGH CIT NEGATIVE EAUD LEAD BROKE OFF AT BODY OF CAPACITOR TYPE CAPACITOR AS CILLOT REOUE 38 THE 149132-OOL BORRD IS CLARKED IN TWO		34		1	<u> </u>	+	 '	 	
SCREWS USED WITH NO FLATWASHERS FOR LOCK— WASHERS. 35 WHEN RECETVER WAS REMOVED TOR LEFT SCREW MISSING TOR LEFT YURNS LOOSE BOTTOM LEFT 7 TURNS LOOSE BOTTOM RIGHT, 3/4 TURN LOOSE CIGH CIT NEGATIVE END LEAD BROKE OFE AT BODY OF CAPACITOR 38 THE 149137-001 BORRD IS CLACKED TO TWO		+		-	-	+			-
FLAT WASHERS \$ /OR LOCK- WASHERS. 35 WHEN RECEIVER WAS REMOVED TOR LEFT SCREW MITSSTAKE TOR RIGHT UTURNS LOOSE BOTTOM LEFT 7 TURNS LOOSE BOTTOM RIGHT 3/4 TURN LOOSE BOTTOM RIGHT 3/4 TURN LOOSE CIGH CIT NEGATIVE END LEAD BROKE OFF AT BODY OF CARROTTOR TWE CARACITOR AS CILFORY ABOUTS 38 THE 149137-001 BORRD IS CRACKED IN TWO		-		-	-	-	 '		-
SS WHEN RECETVER WAS REMADED TOR LEFT SCREW MISSING TOR BIGHT YTURNS LOOSE BOTTOM LEFT 7 TURNS LOOSE BOTTOM RIGHT TURNS LOOSE BOTTOM RIGHT TURN LOOSE CIGH CIT NEGATIVE END LEAD BROKE OFF AT BODY OF CARACITOR TYPE CAPACITOR AS CIGHOLT ABOUT SS THE 149137-001 BORRD IS CLACKED TAN TWO				-	+-	-			
SS WHEN RECETVER WAS REMOVED TOP LEFT SCREW MISSING TOP RIGHT UTWENS LOOSE BOTTOM LEFT 7 TWENS LOOSE BOTTOM RIGHT THEN LOOSE 34 PM 131160-10 & 3/N 005 POWER AMPLIFIER CIGH CIT NEGATIVE END LEAD BROKE OFF AT RODY OF CAPACITOR 37 NOTE C3 IS SAME TYPE CAPACITOR AS CIGH CIT REQUIR		+		-	+	+-	,		
TOP LEFT SCREW MITSLANG TOP BIGHT UTURNS LOOSE BOTTOM LEFT 7 TURNS LOOSE BOTTOM RIGHT 3/4 TURN LOOSE BOTTOM RIGHT 3/4 TURN LOOSE 36 PIN 131160-100 3/N 005 PONER AMPLIFITER CIGI CIT NEGATIVE END LEAD BLOKE OFE AT BODY OF CAPACITOR 37 NOTE C3 IS SAME TYPE CAPACITOR AS CIGION ABOUT		+	WASHERS.	\vdash	+	+			
TOP LEFT SCREW MITSLANG TOP BIGHT UTURNS LOOSE BOTTOM LEFT 7 TURNS LOOSE BOTTOM RIGHT 3/4 TURN LOOSE BOTTOM RIGHT 3/4 TURN LOOSE 36 PM 131160-100 3/N 005 POWER AMPLIFIES CIGI CIT NEGATIVE END LEAD BLOKE OFF AT BODY OF CAPACITOR 37 NOTE C3 IS SAME TYPE CAPACITOR AS CIGIOTY ABOUT ABOUT 15 CRACKED IN TWO		+		+-	+-	-			
TOP LEFT SCREW MITSLANG TOP BIGHT UTURNS LOOSE BOTTOM LEFT 7 TURNS LOOSE BOTTOM RIGHT 3/4 TURN LOOSE BOTTOM RIGHT 3/4 TURN LOOSE 36 PM 131160-100 3/N 005 POWER AMPLIFIES CIGI CIT NEGATIVE END LEAD BLOKE OFF AT BODY OF CAPACITOR 37 NOTE C3 IS SAME TYPE CAPACITOR AS CIGIOTY ABOUT ABOUT 15 CRACKED IN TWO		25	LILL-1 DED THE WING PERMI	大	+	+			
TOP RIGHT YTURNS LOOSE BOTTOM LEFT 7 TURNS LOOSE BOTTOM REGHT 7/4 TURN LOOSE 36 PM 131160-100 3/N 005 PONER AMPLIFIER CIGG CI7 NEGATINE END LEAD BLOKE OFF AT BODY OF CAPACITOR TYPE CAPACITOR AS CIGGOTY ABOUT BOUNE 38 THE 149137-001 BORRD IS CLACKED IN TWO		-			†	—	 		
BOTTOM LEFT 7 TURNS LOOSE BOTTOM RIGHT 3/4 TURN LOOSE 36 PM 131160-106 3/N 005 PONER AMPLIFIER CIGI CIT NEGATIVE END LEAD BROKE OFE AT BODY OF CAPACITOR 37 NOTE C3 TS SAME TYPE CAPACITOR AS CIGICAT ABOUT 38 THE 149137-001 BORED IS CRACKED IN TWO		+-		1		T			
BOTTOM RIGHT 3/4 TUEN LOOSE 36 PIN 131160-106 3/N 005 PONER AMPLIFTER C166 C17 NEGATIVE END LEAD BROKE OFF AT BODY OF CAPACITOR 37 NOTE C3 TS SAME TYPE CAPACITOR AS C166 CM ABOUT 15 CRACKED IN TWO					1				
36 PM 131160-106 3/N 005 PONER AMPLIFIER CIGI CIT NEGATINE END LEAD BROKE OFF AT BODY OF CAPACITOR 37 NOTE C3 TS SAME TYPE CAPACITOR AS CIGION ABOUT 38 THE 149137-001 BOARD IS CLARKED IN TWO									
POWER AMPLIFIER CIGI CIT NEGATIVE END LEAD BROKE OFF AT BODY OF CAPACITOR 37 NOTE C3 TS SAME TYPE CAPACITOR AS CIGION ABOUT 38 THE 149137-001 BOARD IS CRACKED IN TWO									
POWER AMPLIFIER CIGI CIT NEGATIVE END LEAD BROKE OFF AT BODY OF CAPACITOR 37 NOTE C3 TS SAME TYPE CAPACITOR AS CIGION ABOUT 38 THE 149137-001 BOARD IS CRACKED IN TWO									
POWER AMPLIFIER CIGI CIT NEGATIVE END LEAD BROKE OFF AT BODY OF CAPACITOR 37 NOTE C3 TS SAME TYPE CAPACITOR AS CIGION ABOUT 38 THE 149137-001 BOARD IS CRACKED IN TWO		34							
CIGO CIT NEGATIVE END LEAD BROKE OFF AT BODY OF CAPACITOR 31 NOTE C3 TS SAME TYPE CAPACITOR AS CIGOTA ABOUT 38 THE 149137-001 BORRD IS CRACKED IN TWO		\perp							
37 NOTE C3 TS SAME TYPE CAPACITOR AS CIGION ABOUT 38 THE 149137-001 BORED IS CRACKED IN TWO		1	CIGA CIT NEGATIVE		1	\perp			
37 NOTE C3 IS SAME TYPE CAPACITOR AS CIGGOT ABOUT 38 THE 149137-001 BOARD IS CRACKED IN TWO		4	FAID LEAD BROKE OFF	1	1	4			
TYPE CAPACITOR AS CIGGOTA ABOUTE 38 THE 149137-001 BOARD IS CRACKED IN TWO		1	AT BODY OF CAPACITOR	1	1	1			
TYPE CAPACITOR AS CIGGOTA ABOUTE 38 THE 149137-001 BOARD IS CRACKED IN TWO	-	4		1	1	+			
TYPE CAPACITOR AS CIGGOTA ABOUTE 38 THE 149137-001 BOARD IS CRACKED IN TWO		+		+	+	\downarrow		-	
ABOUTE 38 THE 149137-001 BOARD IS CRACKED IN TWO				4-	1	+	-		
38 THE 149137-001 BORED IS CRACKED IN TWO				+	+	+			
IS CRACKED IN TWO		+	A3005	+	+	+			-
IS CRACKED IN TWO		+-		+-	+	+			
IS CRACKED IN TWO		+	1110.22	+	+	+			
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R.M.R. NO. _____

OPERATION REJECTED		DISCREPANCY RECORD/REWORK INSTRUCTIONS	MRB	SCRAP	RWK	OPERATOR	REJECT	ACCEPT
	39	POWER AMPL. JI(16) \$						
	1-1	J2 (15) EACH HAVE (2)		_	<u></u>			
		EXTRA FLAT WASHERS.	_	<u> </u>	<u></u>			
	-		-	-	-			-
	Un	COVER HAS BEEN	十	+	-			-
	1 1	DAMAGED BELOW ELO	 	<u></u>	H			
		& P.C. BOARD WAS						
		STRUCK BY E10						
	$\downarrow \downarrow$	ļ	_	_				
	1	·	-	+	+			-
	41	ATY LOOSE	+	+	-			
	+-		+	+	+			-
	1/2	FL2 LOOSE		+	+-			-
	7			T				
	43	BY JICO LOSE (2) TURNS			I			
	— '	BY JICO LOOSE (2) TURNS	_	_	1			
	+-'		1	+-	+			
	+		+	+	+			
	44	BROKEN NYLON CLAMPS	+	+	+	 		
	+-	DROKEN	+	+				
	1		+	+				
	115	RED WIRE TO PO(17)						
		BU#8 HAS DAMAGED						
		INSULATION 6" BEHIND	1_	1	1			
	4	CONNECTOR	1	+	+	-		
	+		+	+	+		-	
	46	6 42 LOOSE	十	+	+	-	-	
•	78	U L LOUDE	+	+	+	 	 	1
	T			T				
	4	WIRE # 123 TO TBI-S INSILAT	Tar	J				
		TS DAMAGED TO THE THIS		1	1	Ι		
	1	no-m. man	1			l	1	

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R.M.R. NO.

DISCREPANCY AND REWORK RECORD ACTIVITIES

OPERATION DISCREPANCY RECORD/REWORK INSTRUCTIONS OPERATOR REJECTED NO. REJECT ACCEPT A10 P/W 131170-100 5/W 001 APPEARS TO HAVE HIT CHASSIS AT CI NEGATIONS END SOLDER JOINT ON THE DIP SIDE OF BOARD 49 GRAY WIRE TO TBI-1 HAS DAMAGED INSULATION 50 BLACK WIRE TO TBI-7 DAMAGES INSULATION 51 AR3 HAS (1) MOUNTING SCREW MITSSTNG 5) THE (2) MOUNTING SCREWS FOR ARB BRACKET ARE LOOSE (1) BY J3 (27) 2/4 TURNS 5355 BIN#3 BROKEN WIRE STRANDS 54 YELLOW WIRE TO TBI-4. DAMAGED INSULATION ST CARD CAGE BOTH STORES BENT INWARD TOTAL LENGTH OF CAGE APPROX

R.M.R. N.O.

OPERATION REJECTED	NO.	DISCREPANCY RECORD/REWORK INSTRUCTIONS	MRB	SCRAP	RWK	OPERATOR	REJECT	ACCEPT
	54	CARD CAGE TOP BENT						
		LIFWARD APPROX.150						
					_			<u> </u>
				<u> </u>	_	ļ }		
	57	CARD CAGE REAR FOLDS			_			
		TOP & BOTTOM BENT OUT		_	-			
		APPROX. 20°.		_	_			
					-			
				-	-			
	1 1	TOP CARD GUTDES FOR			\vdash			
		Al A3 A4 & A6 BOTH ENDS	_		\vdash		<u> </u>	
		Publica out		-	+			
								
	59	TOP CARD GCAGE # - A2-FB						
		AS & FRONT PULLED						
		OUT						
	60	CARD CAGE BOTTOM						
		AS- A3 JA4 GUTDES						
		PULLED OUT						
	-			_	_			ļ
	_		_					
		ALL GARD GUIDES	_	_	_			<u> </u>
	-	REMATNING ARE TWISTED & DEFENED		-	-	 		
		TWISTED & DEF	_	_	┼		ļ	ļ <u>-</u> .
-	-		_	-	-			
	+		-	-	╀			
		XAI-2-5-6 \$7 CONNECTORS	-	-	-			
		BROKEN AT TOP OF	-	+-	╁╴	 		
		CARD CAGE	+	\dagger	+-			
	 			-	+			
	1	XA3 \$XA4 CONNECTORS	 	+	1	<u> </u>		
		BROKEN AT BOTH ENDS.	\vdash	\vdash		 		
	1	ALE VILLE OF TELL MOUNTS .	1	1	1	<u> </u>		1

R.M.R. NO. ______

OPERATION REJECTED	NO.	DISCREPANCY RECORD/REWORK INSTRUCTIONS	MRB	SCRAP	RWK	OPERATOR	REJECT	ACCEPT
	64	P.C. BOARD RETAINER						
		STRAP BADLY DEFORMED						
	65	XAI THEU XAT SEVERAL						
		BROKEN WIRES THEN						
		OUT APPROX. 15						
	66	XAY PIN#33 PARTIALLY						
		PULLED DUT OF CONNECTOR						
				_	_			
	67	WIZ COAX CABLE						
		BROKEN BEHIND EACH			_			
		CONNECTOR						
	68	AI S/N OOG TOP RIGHT			L			
		CORNER DAMAGED \$						
		DE-LAMTNATED			L			
	<u> </u>							
	_				_			<u> </u>
	69	AI CONNECTOR METH						
	_	STRIP BURRED THRE OUT	<u> </u>					<u></u>
	<u> </u>			_			ļ	
								<u> </u>
	70	AI GUIDE BENT	_	_	_		ļ	
	-			_	 -			
	_			_	_			ļ
	71	AZ S/N DOY TOP RIGHT	_	-	_			
	+	COPNER DAMAGED	-	<u> </u>	1_			
-	_	DE-LAMINATED		_	-			
448	-		1	\vdash	_			
	1-		_	_	1			
	72	AS CONNECTED METAL	_	ļ	-			
		1	1)	1	1	Ī	I

R.M.R. NO. _____

OPERATION REJECTED	NO.	DISCREPANCY RECORD/REWORK INSTRUCTIONS	MRB	SCRAP	RWK	OPERATOR	REJECT	ACCEPT
	73	A2 RSG BROKEN LEAD						
								
	24	AZ GRIDE PIN BROKEN						
				_				
				-		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	75	A2 PINS 49\$50 ARE	-					-
		BURRED AT END		_				
								
	76	A3 3/N ODD TOP BIGHT						
		CORNER DAMAGED &						
		DE-LAMINATED						
	72	A3 ESECTOR NOT STATED						
		PROPERIY		_	_			
								
			_	-			<u> </u>	
	78	A3 BN #15 BROKEN	_	-	-	i 	<u> </u>	<u> </u>
			_	-	-			
	20	A3 PIN #40 BADIY	-	-	-		<u> </u>	
	1/2		 		\vdash			
	+	BENT						
	\vdash		-		\vdash			
	80	A4 5/N 002 449 M12				ļ		
		HAVE CHIPPED CONFORMA						
		COATTAIG						
					<u> </u>			
	8/	A4 BN #16 BROKEN	_	_	_			
	-		<u> </u>					
	-		-	-	-		ļ	•
		AY CONNECTOR METAL	-	_	-		-	-
	+	STRIP BURRED THRU DAT	-	\vdash	+			
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		Assert and and and			
-	1	GE	11	-	F
	/	(7)	//		
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R.M.R. NO. _____

OPERATION REJECTED		DISCREPANCY RECORD/REWORK INSTRUCTIONS	MRB	SCRAP	RWK	OPERATOR	REJECT	ACCEPT
	83	AS S/N OOI METAL						
		STRIP BURRED THRU OUT						
			_	-				
	QU	A7 5/N 001 U8			-			
		CONFORMA COATTAG			 			
		CHIPPED OFF						
			_	_	_			
	80	AT R43 BROKEN AT	-		-			
	00	LEAD SEAL						
	-		_	<u> </u>	_			
	86	Al UII TOP BROKEN	-	-	-			
		OFF	\vdash	\vdash			<u> </u>	
	87	REAR OF CASE ALL						
**		AROUND BENT INWARD	_	-	_			
	-		-	-	-			
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12/16/76 DISCREPANCY AND REWORK RECORD ACTIVITIES PAGE TO

R.M.R. NO. ____

OPERATION REJECTED		DISCREPANCY RECORD/REWORK INSTRUCTIONS	MRB	SCRAP	RWK	OPERATOR	REJECT	ACCEPT
	1	THE 135 HT ELEMENT ASSY						
		S/N OOI HAS THE MATERY	76					
		BROKEN AT TOP CROWN						
		FROM THE 140° MARK TO						
		200° mark, ALSO From						
		260° mark To 350° mark						
		NOTE THE SEPERATION						<u> </u>
		EXTENDS THEN THE				.,		ļ
	<u> </u>	MAT ERIAL 1		<u> </u>				<u> </u>
					_			ļ
	_			-				
	2.	(3) SETS OF (3) WIRES			<u> </u>			ļ
	1	EACH ARE BROKEN REF	_	_	_		 	<u> </u>
	-	ABOVE.		_				
	-			_	-			
	₩				 			<u> </u>
	3	(2) WIRES LOCATED AT	_	-	-			
	┼	290° § 300° THERE IS A CRACK I" X 3/8" FROM THE		ļ				
	+-		-	-	-		ļ	
	-	CROWN OF THE FOAM	-	-	}			
	┼			-	-	<u> </u>	 	-
	11	3/00 -1-0	-	-	-			
	4.	AT 3/0° THERE IS A		\vdash	-	<u> </u>		
	+	1" CRACK FROM CRAWN	-	┢	-			
	+-		-	-	-			
	+		-		\vdash		<u> </u>	
		uffer RADOME (4)	\vdash	-	╁			
	╁╴	APPROX 4" & IS		-	┢			
				 	<u> </u>			
	1	DE-LAMINATED IN THE	-	-	\vdash			
	+	ADAJACENT AREAS	\vdash		1	†		†
	+		\vdash	+	T			†
 	1	LOWED POT AME APPORT	一		1			+
	0	LOWER RADOME APPROX	 	T	f			
	+	HAS ALLE & THE	1	1	+		 	
	+	HAS CLACKED & DE- LAMINATED AT EDGE.	1	 	╁╌			

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DISCREPANCY AND REWORK RECORD ACTIVITIES

R.M.R. NO.

ANTENNA S/NOOL M H W OPERATOR OPERATION NO. DISCREPANCY RECORD/REWORK INSTRUCTIONS REJECT ACCEPT LOWER RADOME HAS (6) AREAS CRACKEED MATERIAL, I- A 1" CRACK THRU REFERENCE MARK 2- 4 NUTS COUNTER CLOCK WISE FROM REF MARK A 3/4' TS PRESENT AT BOTTOM OF RELIEF OUT THE I" MORE CC/W IS ANOTHER 3/4" CRACK IN RELIEF CUT 3- 2 MORE NUTS C-C/W THEFE IS A 1/2" CLACK
LOCATED 1/2" BELOW RELIEF CUT 4 THEN 1'S NITS AWAY STATE C/CW IS A 1/4 CRACK AT BOTTOM OF RELIEF CINT 5 \$ 3 NUTS FLIETHER STALL C-C/W IS A 1/4 CRACK ON THE RELIEF CAT 8 THE PEDESTAL BASE CLACKED COMPLETLY AROUND & LAFGE PECTS FELL OFF BASE

Port of Thete of Specimens Great Brook RECORD ACTIVITIES

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R.M.R.	NU.	

	TRIPOD SER" DOI							
OPERATION REJECTED	NO.	DISCREPANCY RECORD/REWORK INSTRUCTIONS	MRB	SCRAP	RWK	OPERATOR	REJECT	ACCEPT
		DISCREPANCIES AFTER 4' DROP TEST						
		SUPPORT ASSEMBLY ANTENNA PIN 131200						
	-\ .							
	1	TRIPOD BASE IS TWISTED IN APER						
		WHERE LEG ASSEMBLY BOLTS TO						
		TRIPOD BASE, TWO PICS. AXIS OF		_				
		LEG ASSEMBLIES HAS SHIFTED .250						
		RETWEEN AITH BOLTS.						1
				_	_			<u> </u>
	2.	WITH TRIPOIS LEUFLED USING BUBBLE	_					ļ
		LEVEL IN TRIPOD BASE, MOUNTING		_	_			
		SURFACE WHICH INTERFACES WITH		_	_			
		THE PEDESTAL SHOWS A S'INCUNAIN	· .		_			
-			_	_	-			
	_	THE 4104 FIRE COSTICE IN THE TOWN	_	_	_			
	3,	THE MOINTING SURFACE INTHE TRIPOU	_	_	<u> </u>			
1_1		BASE HAS BATT SUCHTLY	_	_	_			
		CAUSING THE PERSTAL TO "ROCK"		-	┞		<u> </u>	
	-	INTER INSTRIBLED	_	 	-			
	-			-	-			
	13	THE LEG ASSEMBLIES HAVE INDENTITIONS	_	-	-			
	١٩.		-	-	}-		 	
	-	WHERE LEGS FOLDED OVER EACH STHER	├-	╁	-	 		
	├-		├-	\vdash	╀		<u> </u>	
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		12/16/16 BATTERY	· · · · · · · · · · · · · · · · · · ·					
OPERATION REJECTED	NO.	DISCREPANCY RECORD/REWORK INSTRUCTIONS	MRB	SCRAP	RWK	OPERATOR	REJECT	ACCEPI
		BATTERY CASE CONER						
		SHOWN SIGNS OF						;
		LEAKAGE ON TRISTDE OF						
		TOP COVER						
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R.M.R. NO. __ P/N 131570-100 5/ 001 HANDLE SC A SC OPERATOR REJECT DISCREPANCY RECORD/REWORK INSTRUCTIONS OPERATION REJECTED NO. 1st test ACCEPT CONER PLATE FOR JI(6) COVER IS BENT TNWARD ALL AROUND NAT COVER IS BENT IN W TOWARDS HANDLE OF THE INSTAC ! OUTSTAC EDGES. 3(2) OF THE Y FLATHEAD SCREWS ARE BENT

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