	STAT	ION										BOI	EING CARD NO.
	TAIL	NO.					X p	OEIK	V/=			23-0	01-01
				S	AS	X		767				AIR	LINE CARD NO.
	DA	TE		J	710		т	ASK CARD	•				
SKII	LL	WORK AR	EA	REL	_ATED TASK		·	INTERVAL			PHASE	MPD	TASK CARD
-1-	<b>ст</b>	DACC CA	DIN				2,	^			12/2/	REV	REVISION
ELE	TASK	PASS CA	RIN			TITLE	20	L	STRUCTURAL	L ILLUSTRATION	12424 REFERENCE		DEC 22/05
FU	NCT	IONAL	SPEA	KER SY	STEM							AIRPLA	NE ENGINE
		701150							100500 84	NELO		PAS	S ALL
11		zones 200			   119AL				ACCESS PA	NELS			
MECH	INSP												MPD ITEM NUMBER
		FUNCTI PA OVE			CK (ON	AIRC	RAFT) SI	PEAKER SYS	TEM, INC	CLUDING		23-3	31-00-5A
			(1)	Do th	nese si	teps	to do a	test of t	he passe	enger ent	ertainme	ent ov	erride:
				(a)	Do the	ese s	teps at	the forwa	rd atter	ndant's p	anel, P2	21:	
					1) Pu	ush t	he PASS	ENT SYST	PWR swit	tch-light			
					a.	) Ma	ke sure	the switc	h-light	is on.			
					2) Pu	ush t	he PASS	SERV SYST	PWR swi	itch-ligh	t.		
					a?	) Ma	ke sure	the switc	h-light	is on.			
				(b)	Do the	ese t	est ste	ps for a s	eat in 1	the forwa	rd passe	enger	zone:
								the forwar hear the	•	-	-		et to
							-	s at an at on the PA		's handse	t to mak	ce an	
					a.	) Pu	sh the I	PA switch					

- b) Push and hold the PTT switch
- c) Speak into the handset.
- 3) Make sure the passenger entertainment stops and that you hear the announcement clearly in the headset.
- 4) Release the handset PTT switch.
- Make sure you hear the passenger entertainment in the headset.

FUNCTIONAL SPEAKER SYSTEM

23-31-00-5A 23-001-01 PAGE 1 OF 11 APR 22/01

23-001-01



				TASK CARD
MECH	INSP			
			(c)	Do the test steps again for a seat in the mid passenger zone.
			(d)	Do the test steps again for a seat in the aft passenger zone.
		(2)		hese steps to make sure voice announcements are clear (this test udes override and muted speakers):
			NOTE	: Make sure there is no feedback with the voice announcements.
			(a)	Continue the operation of the boarding music.
			(b)	Lift the forward attendant's handset.
			(c)	Do these steps to do a test of the handset:
				1) Push the PA switch.
				2) Push and hold the PTT switch.
				3) Make sure the video or boarding music audio stops without much of a click.
				4) Speak into the handset microphone and make sure the announcement is heard clearly in the passenger cabin.
				5) At each audio selector panel, set the PA LISTEN switch on PA.
				6) Make sure the announcement is heard by each of the flight crew through their headsets.
				7) Release the handset PTT switch.
				8) Put the handset back in the holder.
				9) Make sure you can hear the video or boarding music audio.
			(d)	Do the procedure, do these steps to do a test of the handset, at these locations:
				1) The purser's station
				2) The forward right attendant handset
				3) The aft left attendant handset
1				

EFFECTIVITY

23-001-01

BOEING 767 TASK CARD

MECH INSP

- 4) The aft right attendant handset.
- Do these steps to do a test of the pilots' handset.
  - 1) Lift the pilots' handset from the holder.
  - Push the PA switch.
  - 3) Push and hold the PTT switch.
  - 4) Speak into the handset.
  - 5) Make sure the announcement is heard clearly in the passenger cabin.
  - 6) ALL SAS AIRPLANES;

During the announcement from pilots' handset, make sure an announcement cannot be made from an attendant or purser handset.

- 7) Release the handset PTT switch.
- Put the pilots' handset back in the holder.
- Open this circuit breaker on the P11 panel, and attach a DO-NOT-CLOSE tag:
  - 1) 11C23, INTERPHONE CABIN SERVICE
- Do these steps at each handset: (q)
  - 1) Lift the handset from the holder.
  - Push and hold the PTT switch.
  - Do not push the PA switch and make sure you can make an announcement.
  - 4) Release the handset PTT switch.
  - 5) Put the handset back in the holder.
- Remove the DO-NOT-CLOSE tag and close this circuit breaker on the P11 panel:
  - 11C23, INTERPHONE CABIN SERVICE

**EFFECTIVITY** 

FUNCTIONAL SPEAKER SYSTEM

23-31-00-5A

23-001-01

PAGE 3 OF 11 APR 22/01

SAS



23-001-01

AIRLINE CARD NO.

MECH INSP

- (i) Do these steps at each jack panel:
  - Push and hold the PA MIC switch to the PA MIC position.
  - Use the boom microphone to make a voice announcement.
  - Make sure the announcement is heard clearly in the passenger cabin.
  - Make sure a sidetone is heard in the headset.
  - Set the BOOM/OXY switch to the BOOM position on the audio 5) selector panel.
  - While the headphones are on, use the oxygen mask microphone to make a voice announcement.
    - Make sure the announcement is heard clearly in the passenger cabin.
    - b) Make sure you hear a sidetone in the headset.
  - 7) Put the oxygen mask back in the holder.
  - Close the stowage doors.
  - 9) Push the reset test switch.
- 1. Speaker Output Level Adjustment

NOTE: This is a scheduled maintenance task.

- References Α.
  - (1) AMM 23-42-00/501, Cabin Interphone
  - (2) AMM 23-51-00/501, Flight Interphone
  - (3) AMM 24-22-00/201, Electrical Power Control
- В. Equipment
  - Random noise generator 543-1, Pacific Electro Dynamics, 11465 Willows Rd. N.E., Redmond, WA 98052

AIRLINE CARD NO.

				TASK CARD
MECH	INSP			
			(2)	Adapter Cable, Random noise generator – Local manufacture – per Pacific Electro Dynamics Random Noise Generator Service Manual
			(3)	AC voltmeter, capable of reading 1.0 $\pm 0.05$ volts rms
			(4)	Sound Level Meter - GR 1565, Genrad Inc., 300 Baker Av., Concord, MA 01742
			(5)	Headset - Electrical or Pneumatic (Stethoscope) as required - commercially available
		С.	Prep	are for Speaker Output Level Adjustment
			(1)	Supply electrical power (AMM 24-22-00/201).
			(2)	Make sure the cabin interphone system is serviceable (AMM 23-42-00/501).
			(3)	Make sure the flight interphone system is serviceable (AMM 23-51-00/501).
			(4)	Make sure these circuit breakers are closed on the overhead circuit breaker panel, P11:
				(a) 11C22, PASS ADRS
				(b) 11P9, PASS SIGN CONT
				(c) 11T8, PASS ENTMT/SERVICE CONT
				(d) 11T34, VIDEO PROJ
			(5)	Make sure these circuit breakers are closed on the left miscellaneous electrical equipment panel, P36:
				(a) 36J5, MUX/TAPE REPRO
				(b) MTH 281-999;
				36J6, PRE-RECD ANNCT
				(c) SAS ALL; MTH 275-280;
				36J7, PRE-RECD ANNCT

EFFECTIVITY

**DEING** 767 TASK CARD

AIRLINE CARD NO.

MECH INSP

(6) MTH 281-999;

Make sure these circuit breakers are closed on the right miscellaneous electrical equipment panel, P37:

- (a) 37J6, AFT CTD
- (b) 37J7, FWD CTD
- (7) SAS ALL; MTH 275-280;

Make sure these circuit breakers are closed on the right miscellaneous electrical equipment panel, P37:

- (a) 37K1, FWD CTD
- (b) 37K2, AFT CTD
- Make sure this circuit breaker is closed on the P37 panel:
  - (a) SAS ALL;

37K5, FWD VIDEO PROJECTOR PASS ENTERTAINMENT

- Speaker Output Level Adjustment
  - (1) Do these steps to do a test of the speaker sound level:
    - Do these steps to calibrate the random noise generator:
      - Connect the AC voltmeter to the SIGNAL OUTPUT jacks on the random noise generator.
      - On the random noise generator, set the PWR/PTT switch to the ON position.
      - 3) Set the OUTPUT switch to the SIG position.
        - Make sure 1.0  $\pm 0.05$  volts rms is shown on the AC a) voltmeter.
      - Adjust the SIGNAL ADJUST potentiometer (found on the end of the random noise generator) if necessary.

**EFFECTIVITY** 

FUNCTIONAL

SPEAKER SYSTEM

23-31-00-5A

23-001-01

PAGE 6 OF 11 AUG 22/04

\_\_\_\_\_\_

SAS FOEING
767
TASK CARD

AIRLINE CARD NO.

MECH	INSP

- (b) At the captain's or the first officer's sidewall, use an adapter cable to connect the random noise generator to the hand microphone jack (Fig. 501).
- (c) Set the PWR/PTT switch to the ON position on the random noise generator.
- (d) Set the OUTPUT switch to the SIG position on the random noise generator.
- (e) At each jack panel, push and hold the PA MIC switch to the PA MIC position.
- (f) Set the sound level meter to the SLOW and "C" positions.
- (g) Do these steps to do a test of a speaker output level:
  - 1) Slowly move the sound level meter across the speaker panel.
  - Identify the highest value on the sound level meter.

<u>NOTE</u>: These are the recommended sound levels for each PA speaker:

PSU	109 ± 2db
Galley — Fwd ceiling	112 ± 2db
Galley - Aft ceiling	115 ± 2db
Attendant - ceiling	106 ± 2db
Lavatory	109 ± 2db

- (h) Adjust the speaker output level, if necessary (Fig. 502).
- (i) Do these steps to adjust the PA LEVEL control screw on the front of the audio accessory unit M108 installed on shelf E2-5 in the main equipment center:
  - Turn the control screw clockwise to increase the speaker output level.

**EFFECTIVITY** 

FUNCTIONAL | SPEAKER SYSTEM

23-31-00-5A

23-001-01

PAGE 7 OF 11 DEC 22/05

AIRLINE CARD NO.

SAS BOEING
767
TASK CARD

	2)	Turn the control screw counterclockwise to decrease the	
		speaker output level.	

- E. Put the Airplane Back to Its Initial Condition
  - (1) Put all of the handsets back in their holders.
  - (2) Put all of the circuit breakers back to their usual condition.
  - (3) Put all of the audio selector panels back to their usual condition.
  - (4) Remove this test equipment:
    - (a) The random noise generator
    - (b) The sound level meter.
  - (5) Do these steps at the forward attendant's panel, P21:
    - (a) Push the PASS ENT SYST PWR switch-light to the off position (the light goes off).
    - (b) Push the PASS SERV SYST PWR switch-light to the off position (the light goes off).
  - (6) Remove electrical power if it is not necessary (AMM 24-22-00/201).

**EFFECTIVITY** 

MECH INSP

FUNCTIONAL

SPEAKER SYSTEM

23-31-00-5A

23-001-01

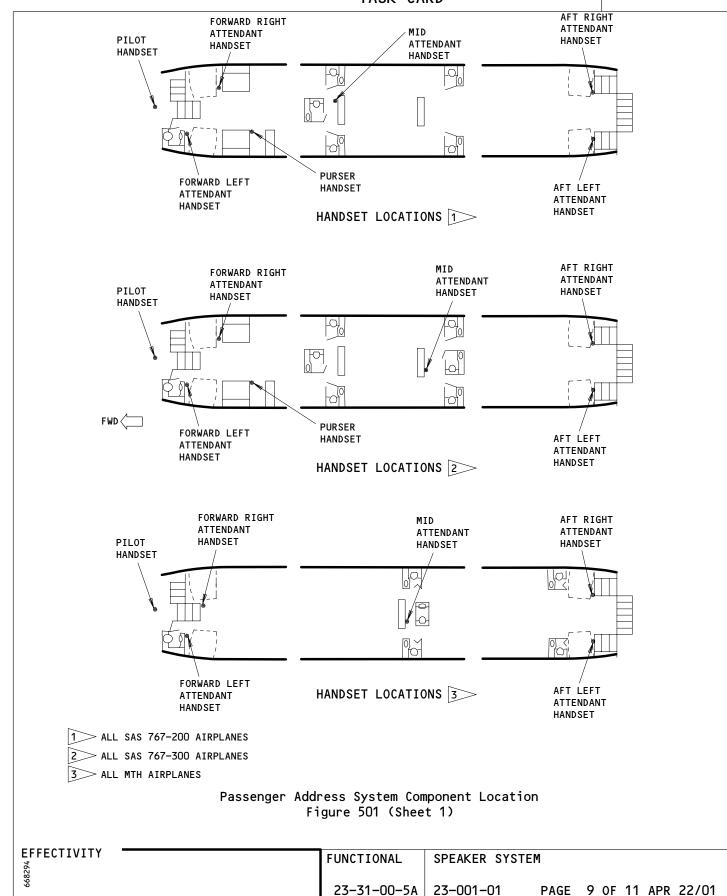
PAGE 8 OF 11 DEC 22/05

SAS



23-001-01

AIRLINE CARD NO.

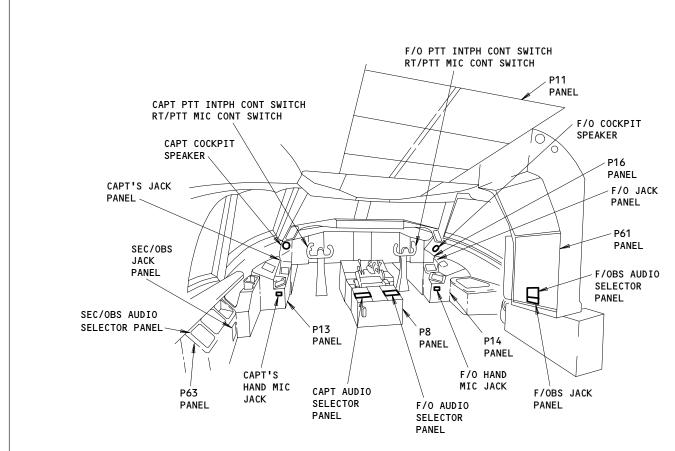


AIRLINE CARD NO.

23-001-01

SAS

BOEING 767 TASK CARD



AUDIO SELECTOR PANEL LOCATIONS

Passenger Address System Component Location Figure 501 (Sheet 2)

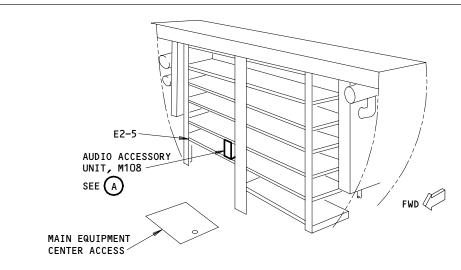
**EFFECTIVITY FUNCTIONAL** SPEAKER SYSTEM 23-31-00-5A 23-001-01 PAGE 10 OF 11 APR 22/01

23-001-01

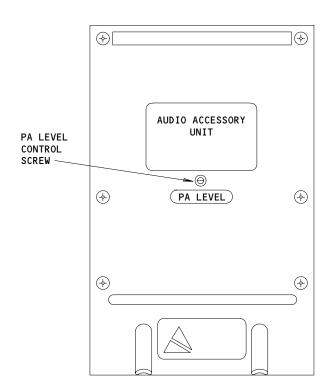
AIRLINE CARD NO.

SAS





## MAIN EQUIPMENT CENTER



AUDIO ACCESSORY UNIT



Passenger Address System Component Location Figure 502

EFFECTIVITY	FUNCTIONAL	SPEAKER SYSTE	M					
588	23-31-00-5A	23-001-01	PAGE	11	OF	11	APR	22/01

STATION
TAIL NO.
DATE



BOEING CARD NO. 23-002-01

AIRLINE CARD NO.

TASK CARD

REVISION

ELECT A	AIRPLAN	E		3C		13636	007	AUG	22/09
TASK			TITLE		STRUCTURAL ILLUSTRATION RE	FERENCE	AP	PLICABI	LITY
FUNCTIO	NAL	STATIC I	DISCHARGERS				AIRPLAN	E	ENGINE
							ALL		ALL
	ZONES			<u> </u>	ACCESS PANELS				

INTERVAL

325 326 336 337 338 346 347 348 544 567 644 667

WORK AREA

PHASE

MECH INSP

SKILL

INSPECT AND FUNCTIONALLY CHECK STATIC DISCHARGERS CAPABILITY (ON AIRCRAFT) TO DISSIPATE PRECIPITATION STATIC.

23-61-01-2A

MPD ITEM NUMBER

Static Discharger Inspection/Check (Fig. 201)

RELATED TASK

- Α. References
  - (1) AMM 24-22-00/201, Manual Control
  - (2) AMM 29-11-00/201, Main (Left, Right, Center) Hydraulic Systems
- Deactivate the Flight Control Surface Movement

MAKE SURE PRESSURE IS REMOVED FROM HYDRAULIC SYSTEM. MAKE SURE WARNING: HYDRAULIC POWER AND ELECTRICAL POWER ARE NOT SUPPLIED. IF HYDRAULIC PRESSURE IS PRESENT OR HYDRAULIC/ELECTRICAL POWER IS SUPPLIED, THE FLIGHT CONTROL SURFACES CAN MOVE. THIS CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

- (1) Remove the pressure and power from the Main Hydraulic System (AMM 29-11-00/201).
- (2) Remove the power from the electrical system (AMM 24-22-00/201).
- C. Procedure
  - (1) Visually make sure all dischargers are not broken and are tight on their bases.
    - Examine dischargers for lightning damage (burned or pitted discharger base). Replace discharger if necessary.
  - (2) Examine dischargers for broken, bent, or missing tips. If repair is not possible replace the discharger.

**EFFECTIVITY** FUNCTIONAL STATIC DISCHARGERS 23-61-01-2A 23-002-01 PAGE 1 OF 18 APR 22/03

AIRLINE CARD NO.

SAS FOR TASK CARD

MECH INSP

- (3) Do this task to measure the resistance of all dischargers between the discharger tip and the discharger base: Static Discharger Test (AMM 23-61-01/201).
- (4) Do this task to measure the resistance of all dischargers between the discharger base and the airplane surface: Static Discharger Base Inspection/Check (AMM 23-61-01/201).
- D. Put the Airplane Back to Its Usual Condition
  - (1) If it is necessary, put the airplane to its usual condition (AMM 29-11-00/201).

## 2. Static Discharger Test

- (1) AMM 24-22-00/201, Manual Control
- (2) AMM 29-11-00/201, Main (Left, Right, Center) Hydraulic Systems
- A. Equipment
  - (1) 1863 Megohmmeter (or equivalent) Quadtech Inc. (Vendor Code OPK96) 100 Nickerson Ave., Marlborough, MA 01752
  - (2) Bonding Meter (SWPM 20-20-00)
- B. Consumable Materials
  - (1) G00034 Cloth cotton, lint free
- C. Deactivate the Flight Control Surface Movement

WARNING: MAKE SURE PRESSURE IS REMOVED FROM HYDRAULIC SYSTEM. MAKE SURE HYDRAULIC POWER AND ELECTRICAL POWER ARE NOT SUPPLIED. IF HYDRAULIC PRESSURE IS PRESENT OR HYDRAULIC/ELECTRICAL POWER IS SUPPLIED, THE FLIGHT CONTROL SURFACES CAN MOVE. THIS CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

- (1) Remove the pressure and power from the Main Hydraulic System (AMM 29-11-00/201).
- (2) Remove the power from the electrical system (AMM 24-22-00/201).
- D. Procedure

FUNCTIONAL STATIC DISCHARGERS

23-61-01-2A 23-002-01 PAGE 2 OF 18 DEC 22/06

\_\_\_\_\_\_

SAS BOEING
767
TASK CARD

AIRLINE CARD NO.

MECH	INSP
------	------

WARNING: DO NOT USE A MEGOHMMETER NEAR A FUEL TANK VENT. IT IS POSSIBLE THAT AN EXPLOSION OR FIRE CAN OCCUR.

- (1) If you must do a resistance check for a static discharger that is in a five foot diameter area around a fuel tank vent, then do these tasks:
  - (a) Static Discharger Removal
  - (b) Static Discharger Installation.
- (2) Discharger Resistance Test

WARNING: USE THE PRECAUTIONS THAT FOLLOW WHEN YOU USE A MEGOHMMETER. IF YOU DO NOT USE PRECAUTIONS, THEN IT IS POSSIBLE THAT AN EXPLOSION OR FIRE CAN OCCUR.

- (a) Use these precautions for possible fuel vapors when you use a megohmmeter:
  - 1) Use the Quadtech 1863 megohmmeter or equivalent meter with a 500 VDC test voltage and a maximum 5 milliampere short circuit current.
  - 2) Do not use a megohmmeter at these locations:
    - a) Area adjacent to or below a wing fuel tank vent, five foot (1.524 meters) diameter column, from vent to ground.
    - b) Zero to 18 inches (457 mm) above the ground in the area around the airplane.
  - 3) Make sure that:
    - a) Area is well ventilated.
    - b) Metal workstands are grounded.
    - c) Megohmmeter is plugged into a grounded receptacle.
    - d) Megohmmeter is insulated from metal work stands.

**EFFECTIVITY** 

FUNCTIONAL

STATIC DISCHARGERS

23-61-01-2A

23-002-01

PAGE 3 OF 18 DEC 22/06

AIRLINE CARD NO.

SAS FOEING
767
TASK CARD

MECH INSP

- (b) To measure the resistance between the discharger tip and base, do the steps that follow:
  - 1) AIRPLANES WITH DAYTON-GRANGER AND OTHER STATIC DISCHARGERS NOT SUPPLIED BY CHELTON;
    Put the wet material on the END of the discharger tip.
  - 2) AIRPLANES WITH CHELTON SUPPLIED STATIC DISCHARGERS; Put the wet material on the END of the discharger tip.

NOTE: DO NOT wrap the wetted material around the tip of the discharger. Wrapping the wetted material around tip of the discharger can cause erroneous resistance readings resulting in the unnecessary removal of a serviceable static discharger. Place the wetted material between the tip of the discharger and the megger probe. If resistance is not within limits, remove wetted material and place megger probe directly onto tip onto discharger core material and repeat test. Refer to Figure 201, ON WING DISCHARGER RESISTANCE TEST. If you are using the alternate discharger test method, connect the megger probe to the edge of the wetted material as shown in Figure 201, ALTERNATE (OFF WING) DISCHARGER RESISTANCE TEST.

- 3) Position the megohmmeter leads on the base and on the wet cloth.
- 4) Make sure the resistance value is between 6-100 megohms.
- (3) Replace the dischargers that do not meet the resistance values.
- E. Put the Airplane Back to Its Usual Condition
  - (1) If it is necessary, put the airplane to its usual condition (AMM 29-11-00/201).
- Static Discharger Base Inspection/Check
  - A. Equipment
    - (1) Bonding meter (SWPM 20-20-00)
  - B. References

**EFFECTIVITY** 

FUNCTIONAL

STATIC DISCHARGERS

23-61-01-2A

23-002-01

PAGE 4 OF 18 DEC 22/06

AIRLINE CARD NO.



MECH INSP

- (1) AMM 24-22-00/201, Manual Control
- (2) AMM 29-11-00/201, Main (Left, Right, Center) Hydraulic Systems
- (3) AMM 51-21-10/701, Decorative Exterior Finishes
- C. Deactivate the Flight Control Surface Movement

WARNING: MAKE SURE PRESSURE IS REMOVED FROM HYDRAULIC SYSTEM. MAKE SURE HYDRAULIC POWER AND ELECTRICAL POWER ARE NOT SUPPLIED. IF HYDRAULIC PRESSURE IS PRESENT OR HYDRAULIC/ELECTRICAL POWER IS SUPPLIED, THE FLIGHT CONTROL SURFACES CAN MOVE. THIS CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

- (1) Remove the pressure and power from the Main Hydraulic System (AMM 29-11-00/201).
- (2) Remove the power from the electrical system (AMM 24-22-00/201).
- D. Procedure

WARNING: MAKE SURE THAT THE BONDING METER IS RESISTANT TO EXPLOSION. IF NOT, IT IS POSSIBLE THAT AN EXPLOSION OR FIRE CAN OCCUR.

- (1) Use a bonding meter (SWPM 20-20-00) to do a check of the static discharger bond between the discharger bases and airplane surface.
- (2) Use method 1 or method 2 to measure the bond resistance.
  - (a) Method 1 Use a bonding meter (SWPM 20-20-00) to measure the dc resistance between the static discharger base and the bonded airplane surface:

EFFECTIVITY -

FUNCTIONAL

STATIC DISCHARGERS

23-61-01-2A

23-002-01

PAGE 5 OF 18 DEC 22/06

AIRLINE CARD NO.

			TASK CARD	
MECH	INSP			
		<u>NO</u>	<u>TE</u> : This resistance measurement is for in-service static discharger bases. There is a differe measurement value for newly installed static bases and bonds.	nt
			Make sure both meter leads touch bare metal. surface is coated with paint, you can scrape small amount of paint or use a sharp probe t the paint.	off a
		1)	Do the test as follows:	
			a) Put one meter lead on the discharger base.	
			b) Put one meter lead on the airplane surface.	
		2)	ALUMINUM DISCHARGER BASE ON ALUMINUM OR ALUMINUM FLAME-SPRAYED SURFACE; Make sure the resistance is not more than 0.5 oh	
			CAUTION: BE CAREFUL WHEN YOU CLEAN THE ALUMINUM DAMAGE TO ALUMINUM COATING CAN OCCUR.	SURFACE.
			<ul> <li>a) If it is necessary, clean the flame-sprayed with Scotch Brite.</li> </ul>	surface
		3)	TITANIUM DISCHARGER BASE ON A CARBON COMPOSITE S Make sure the resistance value is not more than	-
		4)	If it is necessary, paint the area where the pairemoved for the test (AMM $51-21-10/701$ ).	nt was
			nod 2 – Use a bonding meter (SWPM 20–20–00) to do bond resistance between two adjacent discharger	

EFFECTIVITY

TASK CARD

AIRLINE CARD NO.

				TASK CARD
MECH	INSP			
			NOTE:	This resistance measurement is for in-service bonds and static discharger bases. There is a different measurement value for newly installed static discharger bases and bonds.
				Make sure both leads touch bare metal. If a surface is coated with paint, you can scrape off a small amount of paint or use a sharp probe to penetrate the paint.
			1) Do 1	the test as follows:
			a)	Put one meter lead on the discharger base.
			b)	Put one meter lead on the adjacent discharger base.
			ALUI	MINUM DISCHARGER BASE TO ALUMINUM DISCHARGER BASE ON MINUM OR ALUMINUM FLAME-SPRAYED SURFACE; e sure the resistance is not more than 0.5 ohm.
			CARE	ANIUM DISCHARGER BASE TO TITANIUM DISCHARGER BASE ON A BON COMPOSITE SURFACE; e sure the resistance is not more than 5.0 ohms.
			Meth	the resistance shows more than the resistance values in hod 2, then do the procedure in Method 1 to find the ective static discharger base.
		(c)		charger bases that do not meet resistance requirements, steps that follow:
			1) Remo	ove the base.
			2) Clea	an the bonding surfaces.
				tall or replace the discharger base (refer to the Station charger Base Removal/Installation).
		E. Put the A	irplane E	Back to Its Usual Condition
			t is nece 1-00/201	essary, put the airplane to its usual condition (AMM).

EFFECTIVITY

AIRLINE CARD NO.

SAS BOEING
767
TASK CARD

MECH INSP

Static Discharger Removal (Fig. 201)

NOTE: See FIM 23-61-00/101, Fig. 101 and FIM 23-61-00/101, Fig. 102, for detail location information.

- A. References
  - (1) AMM 24-22-00/201, Manual Control
  - (2) AMM 29-11-00/201, Main (Left, Right, Center) Hydraulic Systems
- B. Deactivate the Flight Control Surface Movement

WARNING: MAKE SURE PRESSURE IS REMOVED FROM HYDRAULIC SYSTEM. MAKE SURE HYDRAULIC POWER AND ELECTRICAL POWER ARE NOT SUPPLIED. IF HYDRAULIC PRESSURE IS PRESENT OR HYDRAULIC/ELECTRICAL POWER IS SUPPLIED, THE FLIGHT CONTROL SURFACES CAN MOVE. THIS CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

- (1) Remove the pressure and power from the Main Hydraulic System (AMM 29-11-00/201).
- (2) Remove the power from the electrical system (AMM 24-22-00/201).
- C. Removal of Trailing Edge Type Static Discharger
  - (1) Loosen the setscrew four or five turns on the discharger.
  - (2) Put a thin-bladed tool between the discharger casting and the discharger base.
    - (a) Pry on the discharger and pull out on the sides of the discharger casting to remove the discharger from base.
- D. Removal of Tip Type Static Discharger
  - (1) Loosen the setscrew three or four turns on the rear of the discharger base.
  - (2) Put a small blade between the end of the discharger casting and the base.

EFFECTIVITY FUNCTIONAL STATIC DISCHARGERS

23-61-01-2A

23-002-01

PAGE 8 OF 18 AUG 22/09

AIRLINE CARD NO.

SAS FOEING
TASK CARD

MECH INSP

- (a) Pry on the discharger and pull on the rod as near as possible to the base.
- E. Put the Airplane Back to Its Usual Condition
  - (1) If it is necessary, put the airplane to its usual condition (AMM 29-11-00/201).
- Static Discharger Installation
  - A. References
    - (1) AMM 24-22-00/201, Manual Control
    - (2) AMM 29-11-00/201, Main (Left, Right, Center) Hydraulic Systems
  - B. Equipment
    - (1) 1863 Megohmmeter (or equivalent) Quadtech Inc. (Vendor Code OPK96) 100 Nickerson Ave., Marlborough, MA 01752
    - (2) Bonding Meter (SWPM 20-20-00)
  - C. Consumables
    - (1) A00313 Loctite 242
    - (2) G00034 Cloth cotton, lint free
  - D. Deactivate the Flight Control Surface Movement

WARNING: MAKE SURE PRESSURE IS REMOVED FROM HYDRAULIC SYSTEM. MAKE SURE HYDRAULIC POWER AND ELECTRICAL POWER ARE NOT SUPPLIED. IF HYDRAULIC PRESSURE IS PRESENT OR HYDRAULIC/ELECTRICAL POWER IS SUPPLIED, THE FLIGHT CONTROL SURFACES CAN MOVE. THIS CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

- (1) Remove the pressure and power from the Main Hydraulic System (AMM 29-11-00/201).
- (2) Remove the power from the electrical system (AMM 24-22-00/201).
- E. Static Discharger Inspection Test

EFFECTIVITY -	FUNCTIONAL	STATIC DISCHA	RGERS				
	23-61-01-2A	23-002-01	PAGE	9 OF	18	AUG	22/09

23-002-01

BOEING 767 TASK CARD

MECH INSP

(1) Use the megohmmeter to measure the resistance between static discharger tip and static discharger shank before you install the static discharger.

WARNING: USE THE PRECAUTIONS THAT FOLLOW WHEN YOU USE A MEGOHMMETER. IF YOU DO NOT USE PRECAUTIONS, THEN IT IS POSSIBLE THAT AN EXPLOSION OR FIRE CAN OCCUR.

- Use these precautions for possible fuel vapors when you use a megohmmeter:
  - 1) Use the Quadtech 1863 megohmmeter or equivalent meter with a 500 VDC test voltage and a maximum 5 milliampere short circuit current.
  - Do not use a megohmmeter at these locations:
    - Area adjacent to or below a wing fuel tank vent, five foot (1.524 meters) diameter column, from vent to ground.
    - b) Zero to 18 inches (457 mm) above the ground in the area around the airplane.
  - Make sure that: 3)
    - a) Area is well ventilated.
    - b) Metal workstands are grounded.
    - Megohmmeter is plugged into a grounded receptacle.
    - Megohmmeter is insulated from metal work stands.
- To measure the resistance between the discharger tip and shank, do the steps that follow:
  - AIRPLANES WITH DAYTON-GRANGER AND OTHER STATIC DISCHARGERS NOT SUPPLIED BY CHELTON; Put the wet material on the END of the discharger tip.

**EFFECTIVITY** 

FUNCTIONAL

STATIC DISCHARGERS

23-61-01-2A

23-002-01

PAGE 10 OF 18 AUG 22/09

23-002-01

SAS BOEING TASK CARD

MECH INSP

AIRPLANES WITH CHELTON SUPPLIED STATIC DISCHARGERS; Put the wet material on the END of the discharger tip.

> DO NOT wrap the wetted material around the tip of the discharger. Wrapping the wetted material around tip of the discharger can cause erroneous resistance readings resulting in the unnecessary removal of a serviceable static discharger. Place the wetted material between the tip of the discharger and the megger probe. If resistance is not within limits, remove wetted material and place megger probe directly onto tip of discharger core material and repeat test. If you are using the alternate discharger test method, connect the megger probe to the edge of the wetted material.

- 3) Position the megohmmeter leads on the static discharger shank and on the wet cloth.
- Make sure the resistance value is between 6-100 megohms.
- (2) Alternative Discharger Resistance Test.

This test is for a static discharger that is near a fuel tank vent, but can alos be used for static dischargers at other locations as well.

- (a) Static Discharger Removal.
- (b) Move the discharger to a safe location to use the megohmmeter.
- Use the megohmmeter to measure the resistance between the discharger tip and the discharger shank (\$732-140).
- (d) Static Discharger Installation.

MAKE SURE THAT THE BONDING METER IS RESISTANT TO WARNING: EXPLOSION. IF NOT, IT IS POSSIBLE THAT AN EXPLOSION OR FIRE CAN OCCUR.

FOR METALLIC SHANK STATIC DISCHARGERS ONLY; Use a bonding meter (SWPM 20-20-00) to measure the resistance between the discharger shank and the discharger base.

**EFFECTIVITY** 

FUNCTIONAL

STATIC DISCHARGERS

23-61-01-2A

23-002-01

PAGE 11 OF 18 DEC 22/07

23-002-01

## SAS BOEING TASK CARD

MECH INSP

- 1) Make sure that the resistance is not more than 1 ohm.
- FOR PLASTIC SHANK STATIC DISCHARGERS ONLY; Use a bonding meter (SWPM 20-20-00) to measure the resistance between the set screw in the discharger shank and the discharger base.
  - 1) Make sure that the resistance is not more than 1 ohm.
- Installation of Trailing Edge Type Static Discharger
  - Make sure that the mating surfaces of the static discharger and the discharger base are clean.
  - (2) Remove the setscrew from the static discharger.
  - For static dischargers without a Ny-loc insert in the mounting hole and static dischargers that are not plastic-based material, do this step:
  - (4) Install the setscrew on the static discharger.
  - (5) Adjust the setscrew until it makes a continuous surface with the static discharger casting.
  - Install the discharger over the discharger base with an even pressure on the discharger casting until correctly in position.
    - (a) Tighten the static discharger setscrew:
      - AIRPLANES WITH 2-14SC1, 2-16SC1, 740007, 80-1746-2, 80-1828-2 STATIC DISCHARGERS; Tighten it to 7.5 ±1.5 inch-pounds.
      - AIRPLANES WITH 10-900-21, 10-900-25 STATIC DISCHARGERS; Tighten it to 2.5 inch-pounds.
      - AIRPLANES WITH 16785, 740001, 16305 STATIC DISCHARGERS; Tighten it to 5 inch-pounds.
    - Make sure there is no movement between the static discharger and the discharger base.
- Installation of Tip Type Static Discharger
  - Make sure that the mating surfaces of the static discharger and the discharger base are clean.

**EFFECTIVITY** FUNCTIONAL STATIC DISCHARGERS

23-61-01-2A

23-002-01

PAGE 12 OF 18 DEC 22/08

AIRLINE CARD NO.

SAS BOEING 767 TASK CARD

MECH INSP

- (2) Remove the setscrew from the static discharger base.
- (3) Install the setscrew in the discharger base.
- (4) Adjust the setscrew until it makes a continuous surface with the discharger base.
- (5) Put the discharger casting into the cavity of the discharger base.
  - (a) Tighten the static discharger setscrew:
    - 1) AIRPLANES WITH 2-14SC1, 2-16SC1, 740007, 80-1746-2, 80-1828-2 STATIC DISCHARGERS; Tighten it to 7.5 ±1.5 inch-pounds.
    - 2) AIRPLANES WITH 10-900-21, 10-900-25 STATIC DISCHARGERS; Tighten it to 2.5 inch-pounds.
    - 3) AIRPLANES WITH 16785, 740001, 16305 STATIC DISCHARGERS; Tighten it to 5 inch-pounds.
  - (b) Make sure there is no movement between the static discharger and the discharger base.
- H. Static Discharger Installation Test

WARNING: MAKE SURE THAT THE BONDING METER IS RESISTANT TO EXPLOSION. IF NOT, IT IS POSSIBLE THAT AN EXPLOSION OR FIRE CAN OCCUR.

- (1) ALL STATIC DISCHARGERS EXCEPT P/N 10-900-21 AND 10-900-25; Use a bonding meter (SWPM 20-20-00) to measure the resistance between the shank of the discharger and the static discharger base.
  - (a) Maximum resistance value is 1 ohm.
- (2) STATIC DISCHARGERS P/N 10-900-21 AND 10-900-25; If the static discharger is not in a 5-foot diameter area around a fuel tank vent, then do this step:
  - (a) Do this paragraph again: Static Discharger Inspection Test, but do the test between the discharger tip and the discharger base.
- I. Put the Airplane Back to Its Usual Condition

FUNCTIONAL STATIC DISCHARGERS

23-61-01-2A 23-002-01 PAGE 13 OF 18 AUG 22/08

23-002-01

AIRLINE CARD NO.

SAS FOEING
767
TASK CARD

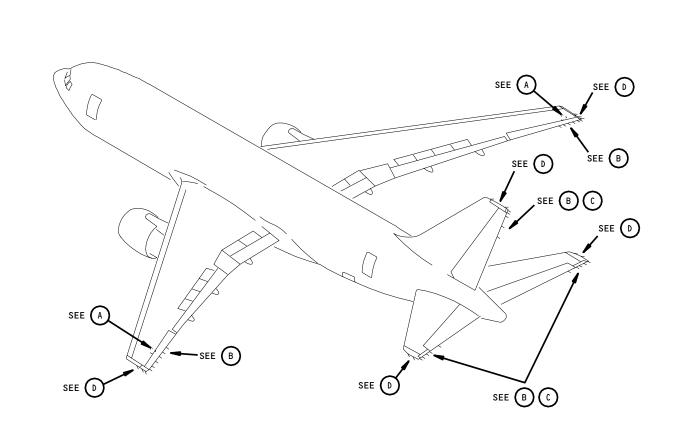
MECH	INSP													_
			(1)	If it is necessary	nut	tha	airnla	ne to	itc	ادييون	cond-	ition	CAMM	
			(1)	If it is necessary, 29-11-00/201).	ρuι	tile (	апрс	ille to	) 115	usuat	Conu	1 ( 1011	CAPIPI	
				27 11 00/2017:										
EFF	ECTI	VITY -			FUNC	TION	AL	STAT	C DI	SCHARGI	ERS			
					23-	-61 <b>-</b> 0	1-2A	23-00	02-01	P	AGE 14	4 OF '	18 AUG 22/08	
					I									

AIRLINE CARD NO.

23-002-01

SAS

BOEING 767 TASK CARD



Static Discharger Locations Figure 201 (Sheet 1)

**EFFECTIVITY FUNCTIONAL** STATIC DISCHARGERS 23-61-01-2A 23-002-01 PAGE 15 OF 18 DEC 22/07

AIRLINE CARD NO.

23-002-01

SAS

767 TASK CARD

FUEL TANK VENT STATIC DISCHARGER CLASS I, DIVISION 1 HAZARDOUS LOCATION AILERON INBD LEFT WING (RIGHT WING IS OPPOSITE) FUEL TANK VENT FUEL TANK VENT (RIGHT WING) (LEFT WING) 5 FEET-5 FEET (1.524 (1.524 METERS) METERS) CLASS I, DIVISION 1 18 INCHES 18 INCHES (457 mm) HAZARDOUS LOCATIONS AREA (457 mm) CLASS I, DIVISION 1 HAZARDOUS LOCATIONS (CLOSED FUEL TANK) WARNING: DO NOT USE A MEGOHMMETER TO MEASURE STATIC DISCHARGER RESISTANCE IN A CLASS I, DIVISION 1 HAZARDOUS LOCATION. AN EXPLOSION OR FIRE IS POSSIBLE. 1 REFER TO AMM 28-11-00/201 FOR DEFINITIONS OF HAZARDOUS LOCATIONS Static Dischargers Location

Figure 201 (Sheet 2)

23-61-01-2A

STATIC DISCHARGERS

PAGE 16 OF 18 DEC 22/07

23-002-01

**FUNCTIONAL** 

BOEING PROPRIETARY - Copyright (C) - Unpublished Work - See title page for details.

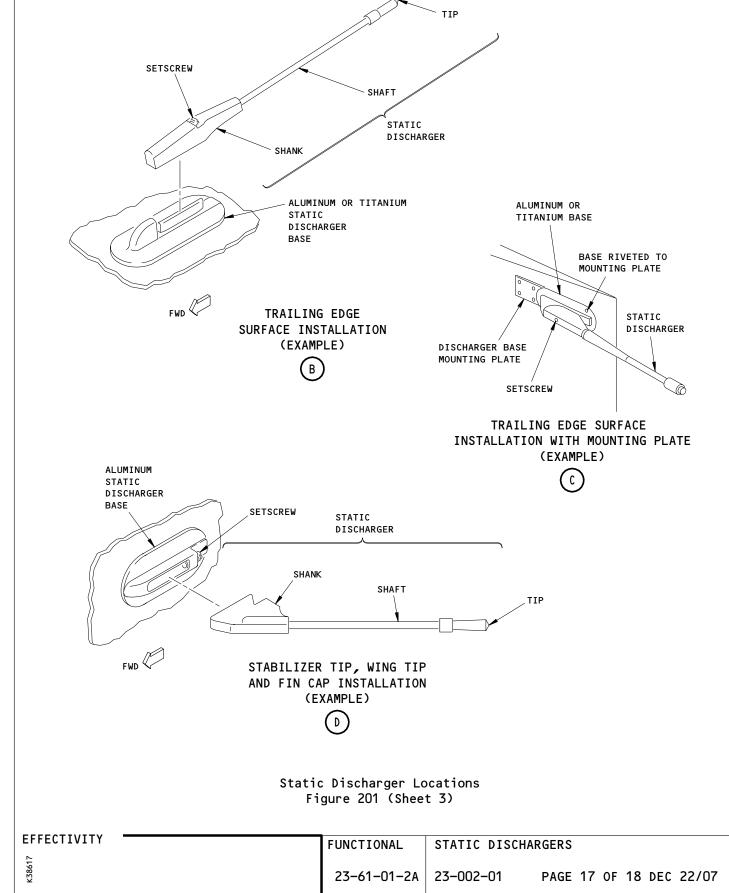
**EFFECTIVITY** 

23-002-01

AIRLINE CARD NO.

SAS



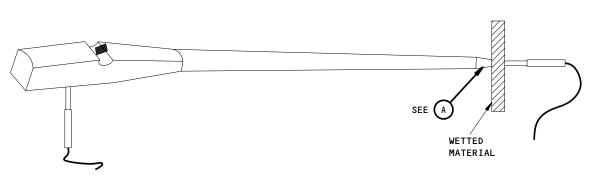


SAS

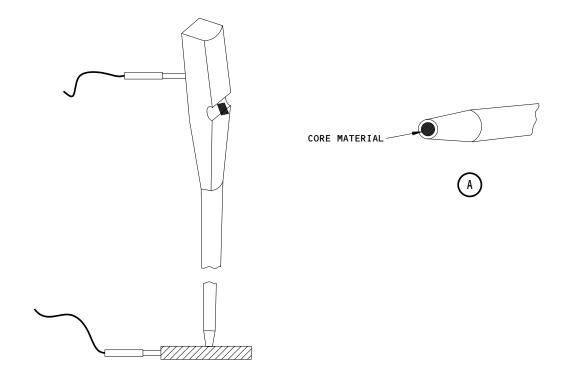


23-002-01

AIRLINE CARD NO.







## ALTERNATE (OFF WING) DISCHARGER RESISTANCE TEST

 $\underline{\text{NOTE}} \colon$  TEST PROCEDURES FOR THE TRAILING EDGE AND WING TIP DISCHARGERS ARE THE SAME.

Static Discharger Resistance Test Figure 201A

EFFECTIVITY	FUNCTIONAL STATIC DISCHARGERS							
13163	23-61-01-2A	23-002-01	PAGE	18	0F	18	DEC	22/07

	STATION								BOE	ING CARD	NO.
-	TAIL NO.				30E	ING			23-0	03–01	
			S	SAS	767				AIRI	INE CAR	D NO.
	DATE				TASK C						
SKILL	WOF	RK AREA	RE	LATED TASK	IN	TERVAL		PHASE	MPD REV		K CARD VISION
AVIO	N CREW	CABIN			1A			10101	012	AUG	22/09
	TASK RATIONA	L VO:	CE REC	ORDER - S	Г	STRUCTU	RAL ILLUSTRATION RE	FERENCE	AIRPLAN	PLICABII E	ENGINE
	ZONES	,		1		ACCESS	DANELC		ALL		ALL
211	ZUNES	5				ACCESS	FANELS				
MECH IN	NSP								ı	IPD ITEM	NUMBER

OPERATIONALLY CHECK THE VOICE RECORDER OPERATION BY PRESSING "TEST" SWITCH ON COCKPIT VOICE RECORDER PANEL (IF NOT CHECKED BY CREW).

23-71-00-5A

1. Prepare for Operational Test

- A. General
  - (1) This task prepares the airplane for the operational test.
- B. References
  - (1) 24-22-00/201, Electrical Power Control
- C. Procedure
  - (1) Supply electrical power (AMM 24-22-00/201).
  - (2) Do this task: "Voice Recorder Control Panel Test".
- 2. <u>Voice Recorder Control Panel Test</u>
  - A. General
    - (1) This task does a test of the Voice Recorder Control Panel.
  - B. References
    - (1) 24-22-00/201, Electrical Power Control
  - C. Prepare for the test.
    - (1) Supply electrical power (AMM 24-22-00/201).
    - (2) Connect the 600 ohm headphone to the HEADSET jack on the voice recorder control panel (P5).

EFFECTIVITY	OPERATIONAL   VOICE RECORDER - SELF TE					ST				
	23-71-00-5A	23-003-01	PAGE	1	OF	2	AUG	22/09		

23-003-01

AIRLINE CARD NO.



MECH INSP

- (3) Do the steps that follow for the operational test:
  - (a) Push the TEST switch on voice recorder control panel for approximately 1/2 second.
  - (b) Make sure that the MONITOR light comes on while you push the TEST switch.
  - (c) Make sure you hear four tones in the headphone while you push the TEST switch.
- (4) Remove electrical power if it is not necessary (AMM 24-22-00/201).
  - (a) Disconnect headphone from the voice recorder control panel.

**EFFECTIVITY** 

OPERATIONAL | VOICE RECORDER - SELF TEST

23-71-00-5A

23-003-01

PAGE 2 OF 2 AUG 22/09

STATION	
TAIL NO.	
DATE	1



BOEING CARD NO. 23-004-01

AIRLINE CARD NO.

TASK CARD

MPD

PHASE

AVION CREW CABIN

1C NOTE 112XX 013 AUG 22/09

TASK TITLE STRUCTURAL ILLUSTRATION REFERENCE APPLICABILITY

INTERVAL

ACCESS PANELS

TASK

FUNCTIONAL

VOICE RECORDER - 4 CHANNEL OPERATION

APPLICABILITY
AIRPLANE
ENGINE

ALL
ALL

ZONES

WORK AREA

211 212

MECH INSP

SKILL

MPD ITEM NUMBER

FUNCTIONALLY CHECK VOICE RECORDER FOR PROPER 4-CHANNEL OPERATION.

23-71-00-5B

INTERVAL NOTE: WITH CONCURRENCE OF THE REGULATORY
AUTHORITY, OPERATORS MAY USE PRESENTLY
APPROVED TIME INTERVALS FOR SCHEDULED

MAINTENANCE.

System Test - Voice Recorder System

RELATED TASK

- A. References
  - (1) 23-51-00/501, Flight Interphone
  - (2) 24-22-00/201, Electrical Power Control
- B. Prepare for Test
  - (1) Supply electrical power (AMM 24-22-00/201).
- C. Four Channel Microphone Tests
  - (1) Do the steps that follow for the system test:
    - (a) Connect 600 ohm headset to HEADSET jack on voice recorder control panel on the P5 panel.
    - (b) Connect boom microphone to captain's jack panel on P15 panel (AMM 23-51-00/501).
    - (c) Put a cover on the area microphone on the voice recorder control panel. Speak into the boom microphone.

EFFECTIVITY

FUNCTIONAL

VOICE RECORDER - 4 CHANNEL OPERATION

23-71-00-5B

23-004-01

PAGE 1 OF 3 AUG 22/09

1

23-004-01

AIRLINE CARD NO.

ECH IN	INSP	TASK CARD	
	(d	Make sure you hear your voice through the headset a recorder control panel.	t the voice
		NOTE: When you test the digital or solid state voi recorder you will hear your voice in the hea speak. When you test the analog or tape bas recorder you will hear your voice in the hea approximately a 0.5 second delay.	dset as you ed voice
	(e	Disconnect boom microphone from captain's jack pane connect it to the first officer's jack on the P16 p	
	Cf	Speak into the BOOM microphone.	
	(g	Make sure you hear your voice through the headset a recorder control panel.	t the voice
		NOTE: When you test the digital or solid state voi recorder you will hear your voice in the hea speak. When you test the analog or tape bas recorder you will hear your voice in the hea approximately a 0.5 second delay.	dset as you ed voice
	Chi	Disconnect boom microphone from first officer's jac	k.
	(i	Connect boom microphone into first observer's jack	panel (P17).
	(j	Speak into boom microphone.	
	(k	Make sure you hear your voice through the headset a recorder control panel.	t the voice
		NOTE: When you test the digital or solid state voi recorder you will hear your voice in the hea speak. When you test the analog or tape bas recorder you will hear your voice in the hea approximately a 0.5 second delay.	dset as you ed voice
	(L	Disconnect boom microphone from first observer's ja (P17).	ck panel
	(m	Remove the cover from the area microphone.	

23-004-01

AIRLINE CARD NO.

		3A3 2 101
		TASK CARD
ECH	INSP	
		(n) Speak into the area microphone on the voice recorder control
		panel from a distance of three to four feet away.
		(o) Make sure you hear your voice through the headset at the voice
		recorder control panel.
		<u>NOTE</u> : When you test the digital or solid state voice
		recorder you will hear your voice in the headset as you
		speak. When you test the analog or tape based voice
		recorder you will hear your voice in the headset after
		approximately a 0.5 second delay.
		(p) Set boom microphones to the usual position.
		(q) Disconnect the headset from voice recorder control panel.
		(2) Remove electrical power if it is not necessary (AMM 24-22-00/201).

**EFFECTIVITY** 

WORK AREA



BOEING CARD NO. 23-005-02

MPD

AIRLINE CARD NO.

TASK CARD

RELATED TASK INTERVAL SKILL PHASE REV REVISION 00006 YRS NOTE 014 AUG 22/09 ELECT | PASS CABIN 148XX APPLICABILITY
ANF ENGINE STRUCTURAL ILLUSTRATION REFERENCE AIRPLANE

RESTORE **VOICE RECORDER ULB** NOTE ALL

ZONES ACCESS PANELS

253 NOTE

MPD ITEM NUMBER MECH INSP

REPLACE THE VOICE RECORDER UNDERWATER LOCATOR BEACON (ULB) AND OPERATIONALLY CHECK ULB AT THE MANUFACTURER'S ULB LIFE LIMIT.

23-71-03-2B

INTERVAL NOTE: ULB LIFE LIMIT IS CURRENTLY SIX YEARS FROM

DATE OF ULB MANUFACTURE.

ACCESS NOTE: ACCESS THROUGH OPEN LOWERED CEILING PANEL

AT STA 1550.

AIRPLANE NOTE: AIRPLANES EQUIPPED WITH UNDERWATER LOCATOR

BEACONS THAT HAVE A 6-YEAR LIFE-LIMIT

BATTERY.

<u>Underwater Locater Beacon Removal</u> (Fig. 201)

Α. References

(1) AMM 23-71-01/401, Voice Recorder

(2) AMM 25-22-02/401, Lowered Ceiling Panels

Removal Procedure В.

> (1) Open the ceiling panel (AMM 25-22-02/401) to get access to the voice recorder in the aft passenger compartment ceiling.

(2) Do this task: Remove the Voice Recorder (AMM 23-71-01/401).

Remove the underwater locator beacon from the voice recorder. (3)

(a) Loosen the four nuts that hold the ULB.

(b) Remove the two nuts and the clamp from one end of the ULB.

(c) Remove the ULB.

**EFFECTIVITY** RESTORE VOICE RECORDER ULB 23-71-03-2B 23-005-02 PAGE 1 OF 15 AUG 10/97

SAS BOEING TASK CARD

MECH INSP

- (d) Keep the two nuts and the clamp.
- VOICE RECORDERS WITH DUKANE ULBs; <u>Underwater Locator Beacon Battery Replacement</u> (Fig. 202)
  - A. General
    - (1) This procedure contains these tasks:
    - (2) A removal of the Dukane ULB Battery.
    - (3) An installation of the Dukane ULB Battery.
  - Equipment В.
    - (1) Spanner Wrench, 810-325 Dukane Corporation, 2900 Dukane Drive, St. Charles, IL 60174
    - (2) Split Radiator Hose 1-1/4-inch diameter, 5 inches in length
  - C. Consumable Materials
    - (1) G02440 Battery, Dukane 810-2007/K
  - Removal Procedure

DO NOT REMOVE THE BATTERY FROM THE DK100/DK130 ULB. DO NOT WARNING: CAUSE DAMAGE TO THE DK100/DK130 ULB. DO NOT DISCARD THE DK100 /DK130 ULB. THE MANUFACTURER HAS A REPLACEMENT PROGRAM FOR EXPIRED ULBS. ON OR BEFORE THE EXPIRED DATE, SEND THE DK100 /DK130 ULB TO THE MANUFACTURER FOR SERVICING. THE BATTERY CONTAINS DANGEROUS CHEMICAL MATERIALS WHICH CAN CAUSE INJURIES

TO PERSONNEL.

- (1) If you have a DK100/DK130 ULB, send it to the manufacturer for servicing.
- (2) If you do not have a DK100/DK130 ULB, remove the ULB battery:

**EFFECTIVITY** 

RESTORE

VOICE RECORDER ULB

23-71-03-2B

23-005-02

PAGE 2 OF 15 AUG 22/09

AIRLINE CARD NO.



MECH INSP

CAUTION: DO NOT HOLD THE UNDERWATER LOCATOR BEACON WITH A VISE.

THIS CAN CAUSE DAMAGE TO THE UNDERWATER LOCATOR BEACON.

- (a) Hold the ULB body with a split radiator hose.
- (b) Use a spanner wrench to remove the end cap that is identified BATTERY ACCESS.
- (c) Remove the rubber shock cushion from the battery end if it is not removed with the cap.
- (d) Hit the ULB body lightly to remove the battery.
- E. Installation Procedure
  - (1) Install the ULB battery:
    - (a) Put a new battery replacement label on the ULB body.
    - (b) On the date label, write the next scheduled replacement date for the new ULB battery that you installed.

NOTE: The date label is blank so you can write in a replacement date based on your maintenance schedule.

<u>CAUTION</u>: INSTALL THE ULB BATTERY CORRECTLY. INCORRECT POLARITY WILL CAUSE PERMANENT DAMAGE TO THE ULB.

- (c) Put the new battery in the ULB with the end identified by INSERT THIS END in first.
- (d) Remove and discard the used 0-ring from the end cap.

<u>CAUTION</u>: DIRT OR OTHER UNWANTED MATERIAL CAN CAUSE DAMAGE TO THE THREADS AND THE O-RING SEAL. THIS CAN PERMIT WATER LEAKAGE.

(e) Clean the threads and the O-ring groove in ULB body.

**EFFECTIVITY** 

RESTORE

VOICE RECORDER ULB

23-71-03-2B

23-005-02

PAGE 3 OF 15 AUG 22/09

AIRLINE CARD NO.

BOEING 767 TASK CARD

MECH INSP

- (f) Apply a thin layer of lubricant to the 0-ring, 0-ring groove, and threads.
- (g) Install a new 0-ring on the end cap.
- (h) Put the rubber shock cushion smoothly on the end cap.
- (i) Put the end cap into the body.
- (j) Tighten the end cap until the cap flange touches the ULB body.

NOTE: Only use hand force on the spanner wrench.

- (2) Do this task: Underwater Locator Beacon Operational Test.
- VOICE RECORDERS WITH TELEDYNE BENTHOS ULBs; <u>Underwater Locator Beacon Battery Replacement</u> (Fig. 202)
  - Α. General
    - (1) This procedure contains these tasks:
      - (a) Prepare for the removal of the Teledyne Benthos ULB Battery.
      - (b) A removal of the Teledyne Benthos ULB Battery.
      - (c) An installation of the Teledyne Benthos ULB Battery.
  - Equipment
    - (1) B362-09111, Torque Adapter, Used on Underwater Locator Beacon Teledyne Benthos, Inc. 49 Edgerton Drive North Falmouth, MA 02556
    - (2) Split Radiator Hose 1-1/4-inch diameter, 5 inches in length
  - Consumable Materials

**EFFECTIVITY** 

RESTORE

VOICE RECORDER ULB

23-71-03-2B

23-005-02

PAGE 4 OF 15 AUG 22/09

TASK CARD

AIRLINE CARD NO.

				TASK CARD
MECH	INSP			
			(1)	B362-06192-2, Teledyne Benthos.
				NOTE: B362-06192-2 contains a lithium battery P/N C362-04270-2, a 2-022 0-Ring, an 0-Ring lubricant packet and replacement instruction.
		D.	Prepa	re for the Removal
				Measure the battery voltage of the ELP-362D ULB. Use a high-impedance digital voltmeter with a minimum input impedance of 10 Megohms.
				(a) Put the negative meter lead on the water switch.
				(b) Put the positive meter lead on the bare aluminum surface of the beacon housing.
				(c) Read the voltmeter.
		Ε.	Remov	al Procedure
				If the measured voltage is less than 6.0 Volts, send the ELP-362D ULB to the manufacturer for servicing.
				If the measured voltage is 6.0 Volts or more, remove the battery from the ELP-362D ULB:
				CAUTION: DO NOT HOLD THE UNDERWATER LOCATOR BEACON WITH A VISE. THIS CAN CAUSE DAMAGE TO THE UNDERWATER LOCATOR BEACON.
				(a) Hold the ULB body with a split radiator hose.
				(b) Use the torque adapter to remove the end cap that is identified as BATTERY ACCESS.
				(c) Turn the housing up to remove the battery from the unit.
				(d) Discard the battery.
				NOTE: Refer to local instructions when you discard the battery.

EFFECTIVITY

AIRLINE CARD NO.

23-005-02

SAS BOEING TASK CARD

MECH INSP F. Installation Procedure (1) Install the new ULB battery: The Teledyne Benthos C362-04270-2 battery is a six year battery. Set the battery until the arrow points to the top end of the (a) unit. NOTE: The battery label has an arrow mark. On the date label, write the next scheduled replacement date for the new ULB battery that you installed. NOTE: The date label is blank so you can write in a replacement date based on your maintenance schedule. CAUTION: INSTALL THE ULB BATTERY CORRECTLY. INCORRECT POLARITY WILL CAUSE PERMANENT DAMAGE TO THE ULB. (c) Put the new battery in the ULB with the end identified by INSERT THIS END in first. (d) Remove the 0-ring from its groove in the end cap. DIRT OR OTHER UNWANTED MATERIAL CAN CAUSE DAMAGE TO THE CAUTION: THREADS AND THE O-RING SEAL. THIS CAN PERMIT WATER LEAKAGE. (e) Clean O-ring groove of dirt, lint, and other unwanted materials. (f) Apply the O-ring lubricant to the new O-ring. (g) Put the lubricated 0-ring in the end-cap groove. (h) Attach the end cap to the housing.

**EFFECTIVITY** 

AIRLINE CARD NO.

# SAS FOR TASK CARD

MECH INSP

(i) Use the torque adapter to install the end cap tightly.

NOTE: Only use hand force on the torque adapter.

- (j) Torque the end cap to 25 to 30 inch pounds.
- (2) Do this task: Underwater Locator Beacon Operational Test.

#### 4. <u>Underwater Locator Beacon - Operational Test</u>

#### A. Equipment

- (1) Ultrasonic Test Set, 42A12 Series (alternative) Dukane Corporation 2900 Dukane Drive St. Charles, IL 60174
- (2) Ultrasonic Test Set, PL1 (alternative) Dukane Corporation 2900 Dukane Drive St. Charles, IL 60174
- (3) Ultrasonic Test Set, PL3 (alternative) Dukane Corporation 2900 Dukane Drive St. Charles, IL 60174
- (4) Acoustic Test Set, ATS-260 (alternative)
  Datasonics INC.
  1400 Route 28A
  Cataumet, MA 02534

#### B. Procedure

(1) If you have a 42A12 Series test set, do this test of the ULB:

NOTE: 42A12 can do a test for all Dukane and Teledyne Benthos ULBs.

- (a) Put the test set approximately 3 feet from ULB.
- (b) Set the OFF-GAIN control switch on test set to middle position.
  - Make sure that you hear sounds through the earphone on the test set.

EFFECTIVITY

RESTORE VOICE RECORDER ULB

23-71-03-2B

23-005-02

PAGE 7 OF 15 AUG 22/09

AIRLINE CARD NO.

			TASK CARD	
MECH	INSP		·	
		(c)	Set the TUNING CONTROL to 37 ±1 kHz.	
		(d)	Set the INPUT SELECTOR switch to the INT position.	
		(e)	Make sure the test set operates correctly.	
			<ol> <li>Rub your thumb and fingers together in front of t microphone to make sure it operates.</li> </ol>	he
			<u>NOTE</u> : This will produce a rushing noise from the	speaker.
			<ul> <li>a) Make sure you hear sounds through the test se earphone.</li> </ul>	t
		(f)	Use tape to attach a piece of wire or other conductive to the ULB case and the center of the water switch.	e material
			NOTE: This will make a short circuit from the center the water switch to the outer part of the ULB.	
			1) Make sure you hear a pulsed tone at 1-second inte	rvals.
		(g)	Remove the piece of wire or other conductive material ULB case and center of the water switch.	from the
			1) Make sure you do not hear a pulsed tone.	
		(h)	Set the OFF-GAIN control switch to the OFF position.	
		(i)	Make sure that the water switch on the ULB has no gredirt.	ase or
			1) If necessary, clean the switch with water and det	ergent.
			2) Dry the switch with a clean cloth.	
		(2) If y	ou have a PL1 test set, do this test of the ULB:	
		NOTE	: PL1 can only do a test for the DK100 ULB.	

AIRLINE CARD NO.

(a) Use tape to attach a piece of wire or other cond to the ULB case and the center of the water switt  NOTE: This will make a short circuit from the center water switch to the outer part of the water switch to the outer part of the (b) Put the end of the test set against the ULB, appoinch from the water switch.  (c) Push and hold operation switch on the test set.  1) Make sure the BEACON ACTIVE WHEN FLASHING light case and center of the water switch.  3) Make sure the BEACON ACTIVE WHEN FLASHING light flash.  (d) Release the operation switch on the test set.  (e) Remove the test set.  (f) Make sure that the water switch on the ULB has not dirt.  1) If necessary, clean the switch with water and dirt.  2) Dry the switch with a clean cloth.  (3) If you have a PL3 test set, do this test:  NOTE: PL3 can only do a test for the DK100 and DK120  (a) Push and hold the test set against the ULB water  1) Make sure that you hear a pulse sound.  2) Make sure that you hear a pulse sound.	
to the ULB case and the center of the water swith  NOTE: This will make a short circuit from the che water switch to the outer part of the  (b) Put the end of the test set against the ULB, appinch from the water switch.  (c) Push and hold operation switch on the test set.  1) Make sure the BEACON ACTIVE WHEN FLASHING lightly case and center of the water switch.  3) Make sure the BEACON ACTIVE WHEN FLASHING lightly flash.  (d) Release the operation switch on the test set.  (e) Remove the test set.  (f) Make sure that the water switch on the ULB has notific.  1) If necessary, clean the switch with water and circ.  2) Dry the switch with a clean cloth.  (3) If you have a PL3 test set, do this test:  NOTE: PL3 can only do a test for the DK100 and DK120  (a) Push and hold the test set against the ULB water  1) Make sure that you hear a pulse sound.	
the water switch to the outer part of the  (b) Put the end of the test set against the ULB, apprinch from the water switch.  (c) Push and hold operation switch on the test set.  1) Make sure the BEACON ACTIVE WHEN FLASHING limits and center of the water switch.  2) Remove the piece of wire or other conductive the ULB case and center of the water switch.  3) Make sure the BEACON ACTIVE WHEN FLASHING limits.  (d) Release the operation switch on the test set.  (e) Remove the test set.  (f) Make sure that the water switch on the ULB has not dirt.  1) If necessary, clean the switch with water and 2) Dry the switch with a clean cloth.  (3) If you have a PL3 test set, do this test:  NOTE: PL3 can only do a test for the DK100 and DK120  (a) Push and hold the test set against the ULB water  1) Make sure that you hear a pulse sound.	
inch from the water switch.  (c) Push and hold operation switch on the test set.  1) Make sure the BEACON ACTIVE WHEN FLASHING light 2) Remove the piece of wire or other conductive the ULB case and center of the water switch.  3) Make sure the BEACON ACTIVE WHEN FLASHING light flash.  (d) Release the operation switch on the test set.  (e) Remove the test set.  (f) Make sure that the water switch on the ULB has not dirt.  1) If necessary, clean the switch with water and 2) Dry the switch with a clean cloth.  (3) If you have a PL3 test set, do this test:  NOTE: PL3 can only do a test for the DK100 and DK120  (a) Push and hold the test set against the ULB water 1) Make sure that you hear a pulse sound.	
1) Make sure the BEACON ACTIVE WHEN FLASHING light 2) Remove the piece of wire or other conductive the ULB case and center of the water switch.  3) Make sure the BEACON ACTIVE WHEN FLASHING light flash.  (d) Release the operation switch on the test set.  (e) Remove the test set.  (f) Make sure that the water switch on the ULB has not dirt.  1) If necessary, clean the switch with water and 2) Dry the switch with a clean cloth.  (3) If you have a PL3 test set, do this test:  NOTE: PL3 can only do a test for the DK100 and DK120  (a) Push and hold the test set against the ULB water 1) Make sure that you hear a pulse sound.	oximately one
2) Remove the piece of wire or other conductive the ULB case and center of the water switch.  3) Make sure the BEACON ACTIVE WHEN FLASHING lightlash.  (d) Release the operation switch on the test set.  (e) Remove the test set.  (f) Make sure that the water switch on the ULB has not dirt.  1) If necessary, clean the switch with water and 2) Dry the switch with a clean cloth.  (3) If you have a PL3 test set, do this test:  NOTE: PL3 can only do a test for the DK100 and DK120  (a) Push and hold the test set against the ULB water  1) Make sure that you hear a pulse sound.	
the ULB case and center of the water switch.  3) Make sure the BEACON ACTIVE WHEN FLASHING liftlash.  (d) Release the operation switch on the test set.  (e) Remove the test set.  (f) Make sure that the water switch on the ULB has not dirt.  1) If necessary, clean the switch with water and 2) Dry the switch with a clean cloth.  (3) If you have a PL3 test set, do this test:  NOTE: PL3 can only do a test for the DK100 and DK120  (a) Push and hold the test set against the ULB water  1) Make sure that you hear a pulse sound.	jht flashes.
flash.  (d) Release the operation switch on the test set.  (e) Remove the test set.  (f) Make sure that the water switch on the ULB has not dirt.  1) If necessary, clean the switch with water and 2) Dry the switch with a clean cloth.  (3) If you have a PL3 test set, do this test:  NOTE: PL3 can only do a test for the DK100 and DK120  (a) Push and hold the test set against the ULB water  1) Make sure that you hear a pulse sound.	material from
<ul> <li>(e) Remove the test set.</li> <li>(f) Make sure that the water switch on the ULB has no dirt.</li> <li>1) If necessary, clean the switch with water and 2) Dry the switch with a clean cloth.</li> <li>(3) If you have a PL3 test set, do this test:  NOTE: PL3 can only do a test for the DK100 and DK120</li> <li>(a) Push and hold the test set against the ULB water</li> <li>1) Make sure that you hear a pulse sound.</li> </ul>	jht does not
<ul> <li>(f) Make sure that the water switch on the ULB has no dirt.</li> <li>1) If necessary, clean the switch with water and 2) Dry the switch with a clean cloth.</li> <li>(3) If you have a PL3 test set, do this test:  NOTE: PL3 can only do a test for the DK100 and DK120</li> <li>(a) Push and hold the test set against the ULB water</li> <li>1) Make sure that you hear a pulse sound.</li> </ul>	
dirt.  1) If necessary, clean the switch with water and 2) Dry the switch with a clean cloth.  (3) If you have a PL3 test set, do this test:  NOTE: PL3 can only do a test for the DK100 and DK120  (a) Push and hold the test set against the ULB water  1) Make sure that you hear a pulse sound.	
2) Dry the switch with a clean cloth.  (3) If you have a PL3 test set, do this test:  NOTE: PL3 can only do a test for the DK100 and DK120  (a) Push and hold the test set against the ULB water  1) Make sure that you hear a pulse sound.	grease or
(3) If you have a PL3 test set, do this test:  NOTE: PL3 can only do a test for the DK100 and DK120  (a) Push and hold the test set against the ULB water  1) Make sure that you hear a pulse sound.	l detergent.
NOTE: PL3 can only do a test for the DK100 and DK120  (a) Push and hold the test set against the ULB water  1) Make sure that you hear a pulse sound.	
<ul><li>(a) Push and hold the test set against the ULB water</li><li>1) Make sure that you hear a pulse sound.</li></ul>	
1) Make sure that you hear a pulse sound.	ULBs.
	switch.
2) Make sure that you see the LED light comes of	
2) Make Sufe that you see the LED tight comes of	n and off.
(b) Remove the test set from the ULB.	
(c) Make sure that the water switch on the ULB has no dirt.	grease or

EFFECTIVITY

AIRLINE CARD NO.

		TASK CARD	
MECH	INSP		
		1) If necessary, clean the switch with water and dete	ergent.
		2) Dry the switch with a clean cloth.	
		(4) If you have an ATS-260 test set, do this test of ULB:	
		NOTE: ATS-260 can only do a test for the ELP-362D ULB.	
		(a) Put the test set clip on the ULB.	
		(b) Push and hold the PUSH TO TEST button.	
		(c) Put the test set probe on the ULB water switch.	
		1) Make sure a green LED shows.	
		2) Make sure you can hear sounds from the test set.	
		3) Make sure the amber LED flashes.	
		(d) Release the PUSH TO TEST button.	
		(e) Remove the test set.	
		(f) Make sure that the water switch on the ULB has no greater.	ase or
		1) If necessary, clean the switch with water and det	ergent.
		2) Dry the switch with a clean cloth.	
		(5) If you have a TS200 test set, do this test of the ULB:	
		NOTE: TS200 can do a test for all Dukane ULBs.	
		(a) Attach the test probe clip of the test set to the bear mount.	con in its
		(b) Put the tip of the probe on the silver pad of the wate at the end of the beacon.	er switch
		<ol> <li>The LCD display will show the battery voltage of beacon.</li> </ol>	the

AIRLINE CARD NO.

23-005-02

BOEING 767 TASK CARD

MECH INSP

(c) Refer to the applicable battery code for the minimum permitted range of the beacon battery voltage:

Examine the battery replacement label to find the battery code.

- 1) Code A 3.55 Volts
- 2) Code B 2.97 Volts
- Code C 2.97 Volts 3)
- 4) Code D 2.97 Volts
- (d) Push the red button on the test set.
  - 1) The beacon starts and you hear a pinging noise from the test set.
- (e) Remove the test probe clip of the test set from the ULB.
- (f) Replace the ULB if necessary.
- <u>Underwater Locator Beacon Installation</u> (Fig. 201)
  - A. Consumable Materials
    - (1) B00541 Detergent, General Purpose
  - References В.
    - (1) AMM 23-71-01/401, Voice Recorder
    - (2) AMM 25-22-02/401, Lowered Ceiling Panels
  - Installation Procedure
    - Install the underwater locator beacon on the voice recorder:
      - Make sure that the water switch on the ULB has no grease or dirt.
        - 1) Clean the water switch with a weak detergent.
      - (b) Install the clamp on the end of the ULB with the two nuts.

**EFFECTIVITY** 

RESTORE

VOICE RECORDER ULB

23-71-03-2B

23-005-02

PAGE 11 OF 15 AUG 22/09

23-005-02

TASK CARD

AIRLINE CARD NO.

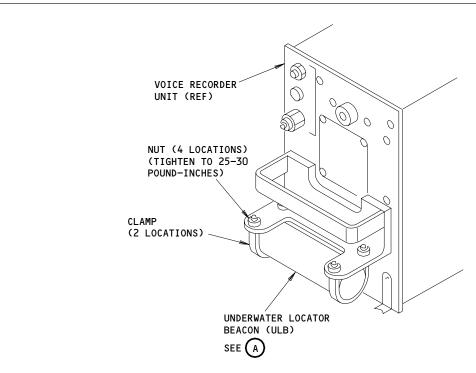
							IASK	CARD							
MECH	INSP											•			
										_		_			
			(c)	Mak	e sure	e you	can rea	d the r	eplaceme	nt date	e on t	the UL	В.		
			(d)	Tig	hten t	the fo	ur nuts								
			_			_						04 //-			
		(2)	Do t	his	task:	Inst	all the	Voice	Recorder	(AMM 2	25-71-	-01/40	11).		
	ECTI	VITY													
= F F	CUII	ATII					RESTOR	E	VOICE R	ECORDER	R ULB				
							23-71	-03-2B	23-005-0	02	PAGE	12 OF	15	AUG 2	22/09

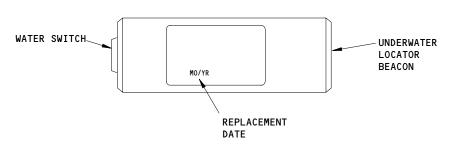
23-005-02

AIRLINE CARD NO.

SAS







#### UNDERWATER LOCATOR BEACON



### Underwater Locator Beacon Installation Figure 201

RESTORE VOICE RECORDER ULB

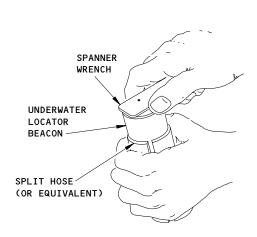
23-71-03-2B 23-005-02 PAGE 13 OF 15 AUG 22/09

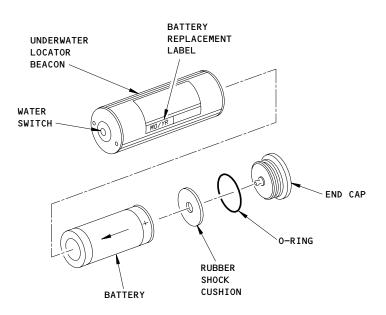
AIRLINE CARD NO.

23-005-02

SAS







#### **BATTERY INSTALLATION**

Underwater Locator Beacon Battery Replacement Figure 202

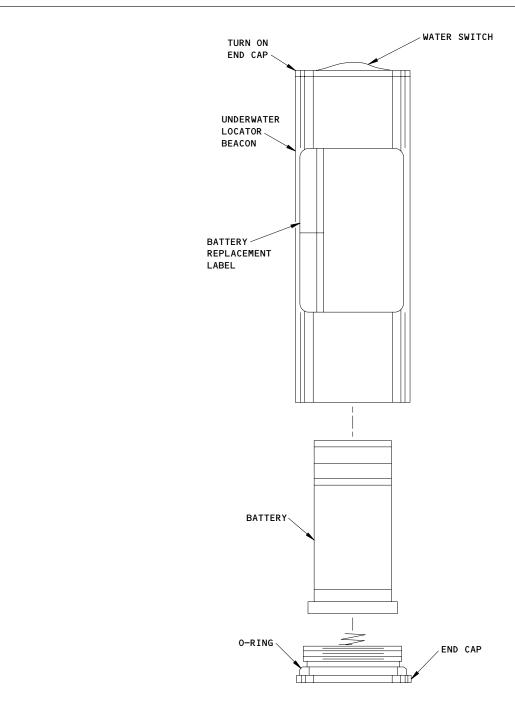
**EFFECTIVITY** RESTORE **VOICE RECORDER ULB** 23-71-03-2B 23-005-02 PAGE 14 OF 15 AUG 22/09

AIRLINE CARD NO.

23-005-02

SAS

767 TASK CARD



**BATTERY INSTALLATION** 

Underwater Locator Beacon Battery Replacement Figure 203

**EFFECTIVITY** RESTORE **VOICE RECORDER ULB** 23-71-03-2B 23-005-02 PAGE 15 OF 15 AUG 22/09

STATION	
TAIL NO.	
DATE	1

WORK AREA

SKILL



BOEING CARD NO. 23-005-03

AIRLINE CARD NO.

PHASE

TASK CARD

ALL

AVION PASS CABIN 00002 YRS 11616 014 APR 22/09

TASK TITLE STRUCTURAL ILLUSTRATION REFERENCE APPLICABILITY AIRPLANE ENGINE

INTERVAL

OPERATIONAL VOICE DATA RECORDER ULB NOTE

ZONES ACCESS PANELS

253 NOTE

RELATED TASK

MECH INSP MPD ITEM NUMBER

OPERATIONALLY CHECK THE VOICE DATA RECORDER UNDERWATER LOCATOR BEACON.

23-71-03-2C

ACCESS NOTE: ACCESS THROUGH OPEN LOWERED CEILING PANEL AT

STA 1640.

AIRPLANE NOTE: AIRPLANES EQUIPPED WITH UNDERWATER LOCATOR

BEACONS THAT HAVE A 6-YEAR LIFE-LIMIT

BATTERY.

Underwater Locator Beacon - Operational Test

A. References

(1) AMM 25-22-02/401, Lowered Ceiling Panels

B. Equipment

(1) Ultrasonic Test Set, 42A12 Series (alternative) Dukane Corporation 2900 Dukane Drive St. Charles, IL 60174

- (2) Ultrasonic Test Set, PL1 (alternative) Dukane Corporation 2900 Dukane Drive St. Charles, IL 60174
- (3) Ultrasonic Test Set, PL3 (alternative) Dukane Corporation 2900 Dukane Drive St. Charles, IL 60174

OPERATIONAL VOICE DATA RECORDER ULB

23-71-03-2c | 23-005-03

AIRLINE CARD NO.

SAS FOR TASK CARD

MECH INSP

(4) Acoustic Test Set, ATS-260 (alternative)
 Datasonics INC.
 1400 Route 28A
 Cataumet, MA 02534

#### C. Procedure

- (1) Open the ceiling panel (AMM 25-22-02/401) to get access to the voice recorder in the aft passenger compartment ceiling.
- (2) If you have a 42A12 Series test set, do this test of the ULB:

NOTE: 42A12 can do a test for all Dukane and Teledyne Benthos ULBs.

- (a) Put the test set approximately 3 feet from ULB.
- (b) Set the OFF-GAIN control switch on test set to middle position.
  - Make sure that you hear sounds through the earphone on the test set.
- (c) Set the TUNING CONTROL to 37 ±1 kHz.
- (d) Set the INPUT SELECTOR switch to the INT position.
- (e) Make sure the test set operates correctly.
  - 1) Rub your thumb and fingers together in front of the microphone to make sure it operates.

NOTE: This will produce a rushing noise from the speaker.

- a) Make sure you hear sounds through the test set earphone.
- (f) Use tape to attach a piece of wire or other conductive material to the ULB case and the center of the water switch.

<u>NOTE</u>: This will make a short circuit from the center of the water switch to the outer part of the ULB.

1) Make sure you hear a pulsed tone at 1-second intervals.

**EFFECTIVITY** 

OPERATIONAL | VOICE DATA RECORDER ULB

23-71-03-2C

23-005-03

PAGE 2 OF 5 DEC 22/08

AIRLINE CARD NO.

23-005-03

BOEING SAS 767 TASK CARD

MECH INSP

- (g) Remove the piece of wire or other conductive material from the ULB case and center of the water switch.
  - 1) Make sure you do not hear a pulsed tone.
- Set the OFF-GAIN control switch to the OFF position.
- Make sure that the water switch on the ULB has no grease or dirt.
  - 1) If necessary, clean the switch with water and detergent.
  - Dry the switch with a clean cloth.
- (3) If you have a PL1 test set, do this test of the ULB:

NOTE: PL1 can only do a test for the DK100 ULB.

(a) Use tape to attach a piece of wire or other conductive material to the ULB case and the center of the water switch.

NOTE: This will make a short circuit from the center of the water switch to the outer part of the ULB.

- (b) Put the end of the test set against the ULB, approximately one inch from the water switch.
- (c) Push and hold operation switch on the test set.
  - 1) Make sure the BEACON ACTIVE WHEN FLASHING light flashes.
  - Remove the piece of wire or other conductive material from the ULB case and center of the water switch.
  - Make sure the BEACON ACTIVE WHEN FLASHING light does not flash.
- (d) Release the operation switch on the test set.
- (e) Remove the test set.
- (f) Make sure that the water switch on the ULB has no grease or dirt.
  - If necessary, clean the switch with water and detergent.

**EFFECTIVITY** 

OPERATIONAL VOICE DATA RECORDER ULB

23-71-03-2c | 23-005-03

PAGE 3 OF 5 DEC 22/08

AIRLINE CARD NO.

			TASK CARD
MECH	INSP		
			2) Dry the switch with a clean cloth.
		(4)	If you have a PL3 test set, do this test:
			NOTE: PL3 can only do a test for the DK100 and DK120 ULBs.
			(a) Push and hold the test set against the ULB water switch.
			1) Make sure that you hear a pulse sound.
			2) Make sure that you see the LED light comes on and off.
			(b) Remove the test set from the ULB.
			(c) Make sure that the water switch on the ULB has no grease or dirt.
			1) If necessary, clean the switch with water and detergent.
			2) Dry the switch with a clean cloth.
		(5)	If you have an ATS-260 test set, do this test of ULB:
			NOTE: ATS-260 can only do a test for the ELP-362D ULB.
			(a) Put the test set clip on the ULB.
			(b) Push and hold the PUSH TO TEST button.
			(c) Put the test set probe on the ULB water switch.
			1) Make sure a green LED shows.
			2) Make sure you can hear sounds from the test set.
			3) Make sure the amber LED flashes.
			(d) Release the PUSH TO TEST button.
			(e) Remove the test set.
			(f) Make sure that the water switch on the ULB has no grease or dirt.
			1) If necessary, clean the switch with water and detergent.

23-007-03

SAS BOEING
767
TASK CARD

AIRLINE CARD NO.

			TASK CARD
ECH	INSP		,
			2) Dry the switch with a clean cloth.
		(6)	If you have a TS200 test set, do this test of the ULB:
			NOTE: TS200 can do a test for all Dukane ULBs.
			(a) Attach the test probe clip of the test set to the beacon in its mount.
			(b) Put the tip of the probe on the silver pad of the water switch at the end of the beacon.
			<ol> <li>The LCD display will show the battery voltage of the beacon.</li> </ol>
			(c) Refer to the applicable battery code for the minimum permitted range of the beacon battery voltage:
			<u>NOTE</u> : Examine the battery replacement label to find the battery code.
			1) Code A - 3.55 Volts
			2) Code B - 2.97 Volts
			3) Code C - 2.97 Volts
			4) Code D - 2.97 Volts
			(d) Push the red button on the test set.
			<ol> <li>The beacon starts and you hear a pinging noise from the test set.</li> </ol>
			(e) Remove the test probe clip of the test set from the ULB.
			(f) Replace the ULB if necessary.
		(7)	Close the ceiling panel (AMM 25-22-02/401) in the aft passenger compartment.

1

STATION	
TAIL NO.	
DATE	



BOEING CARD NO. 23-006-02

AIRLINE CARD NO.

WORK AREA RELATED TASK INTERVAL MPD TASK CARD SKILL PHASE REVISION REV DEC 22/03 AVION | CREW CABIN NOTE APPLICABILITY
ANE ENGINE STRUCTURAL ILLUSTRATION REFERENCE AIRPLANE **OPERATIONAL EMERGENCY LOCATOR TRANSMITTER** NOTE ALL ZONES ACCESS PANELS

211 212

MECH INSP

MPD ITEM NUMBER

OPERATIONALLY CHECK THE EMERGENCY LOCATOR TRANSMITTER (AUTOMATIC/FIXED TYPE).

23-24-00-5A

INTERVAL NOTE: MANUFACTURER'S RECOMMENDATION OR NATIONAL

REQUIREMENT.

AIRPLANE NOTE: IF INSTALLED.

THIS TYPE OF ELT IS ACTIVATED BY A G-FORCE SWITCH AND IS POWERED BY NON-RECHARGEABLE LITHIUM BATTERIES.

- 1. Emergency Locator Transmitter Operational Test
  - A. References
    - (1) AMM 23-12-00/501, VHF Communication System
    - (2) AMM 23-51-00/501, Flight Interphone System
    - (3) AMM 24-22-00/201, Electrical Power Control
    - (4) AMM 31-41-00/501, Engine Indication and Crew Alerting System (EICAS)
  - B. Access
  - C. Procedure
    - (1) Supply electrical power (AMM 24-22-00/201).
    - (2) Make sure these systems operate:
      - (a) The VHF communication system (AMM 23-12-00/501).

SAS 050-274

OPERATIONAL EMERGENCY LOCATOR TRANSMITTER

23-24-00-5A 23-006-02 PAGE 1 OF 2 DEC 22/03

23-006-02

AIRLINE CARD NO.

		TASK CARD
MECH	INSP	
		(b) The flight interphone system (AMM 23-51-00/501).
		(c) The engine indication and crew alerting system (EICAS) (AMM 31-41-00/501).
		(3) Set the VHF-R communication system to listen for the 121.5 MHz test frequency (AMM 23-12-00/501).
		NOTE: Any VHF system with a bottom mounted antenna can be used for this test. If the VHF antenna is on the top, it is possible to hear the ELT signal even though the ELT antenna has failed.
		CAUTION: MAKE SURE YOU FOLLOW THE LOCAL ELT OPERATION REGULATIONS. TELL THE AUTHORITIES IF AN ACCIDENTAL TRANSMISSION IS MADE. THIS WILL PREVENT EMERGENCY SEARCH OPERATIONS THAT ARE NOT NECESSARY.
		(4) Open the guard on the ELT switch on the pilots' overhead panel, P5.
		(5) Push and hold the ELT switch in the TEST position.
		(a) Make sure the ELT signal can be heard on the VHF system.
		(6) Release the ELT switch.
		(a) Make sure the switch returns to the AUTO position.
		(b) Make sure the ELT signal can not be heard on the VHF system.
		(7) Close the guard over the ELT switch.
		(8) Remove electrical power if it is not necessary (AMM 24-22-00/201).

EFFE(	CTIVITY
SAS	050-274

1

STATION	
TAIL NO.	
	_
DATE	



BOEING CARD NO. 23-007-01

AIRLINE CARD NO.

WORK AREA RELATED TASK INTERVAL MPD TASK CARD SKILL PHASE REVISION REV AVION | UPR FUSLAGE APR 22/09 NOTE APPLICABILITY
ANF ENGINE STRUCTURAL ILLUSTRATION REFERENCE AIRPLANE **REPLACE EMERGENCY LOCATOR TRANSMITTER** NOTE ALL ZONES ACCESS PANELS

253 254

MECH INSP

MPD ITEM NUMBER

DISCARD THE EMERGENCY LOCATOR TRANSMITTER (AUTOMATIC/FIXED TYPE) BATTERY.

23-24-01-2A

INTERVAL NOTE: MANUFACTURER'S RECOMMENDATION

AIRPLANE NOTE: IF INSTALLED.

THIS TYPE OF ELT IS ACTIVATED BY A G-FORCE SWITCH AND IS POWERED BY NON-RECHARGEABLE LITHIUM BATTERIES.

Replace ELT Battery (Fig. 201)

#### A. Access

(1) Location Zone 253/254 Area above passenger cabin ceiling - section 46

#### Procedure

- Remove the ELT from the mounting bracket (refer to the Remove Emergency Locator Transmitter paragraph).
- (2) Remove the four screws that hold the control head assembly to the battery pack (Fig. 201).
- (3) Remove the control head assembly from the battery pack to get access to the battery connector.
- (4) Remove the battery connector from the control head assembly.
- Remove the protective tape for the new battery pack connector.
- (6) Install the connector on the back of the control head assembly.
- (7) Look at the manufacturers instructions on the container of the sealant supplied with the new battery pack.

**EFFECTIVITY** SAS 050-274

REPLACE

EMERGENCY LOCATOR TRANSMITTER

23-24-01-2A

23-007-01

PAGE 1 OF 3 APR 22/09

1

4 1

6

23-007-01

AIRLINE CARD NO.



MECH INSP

- (8) Apply a thin continuous bead of sealant to the control head assembly.
  - (a) Do it in an area where the assembly touches the battery pack.
- (9) Make sure the screw holes are in position and install the control head on the battery pack.
- (10) Apply a small quantity of the sealant to the countersink of each screw hole.
- (11) Install four screws and hand tighten. Do not overtighten the screws.
- (12) Make the surfaces clean.
- (13) Install the ELT in the mounting bracket do a test of the installation (refer to the Install Emergency Locator Transmitter paragraph).

SAS 050-274

REPLACE

EMERGENCY LOCATOR TRANSMITTER

23-24-01-2A

23-007-01

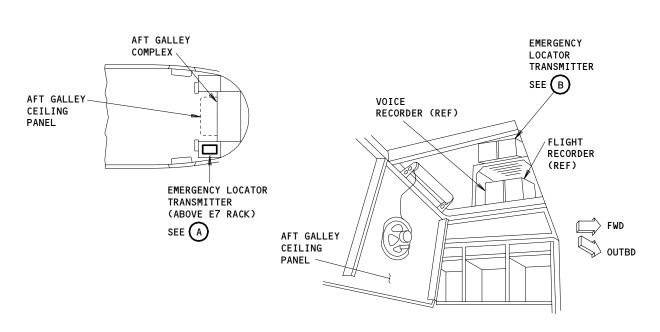
PAGE 2 OF 3 DEC 22/03

SAS

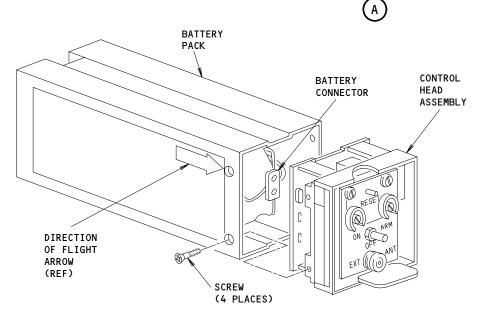


23-007-01

AIRLINE CARD NO.



## EMERGENCY LOCATOR TRANSMITTER



#### EMERGENCY LOCATION TRANSMITTER



Emergency Locator Transmitter Figure 201

EFFECTIVITY SSAS 050-274	REPLACE	EMERGENCY LOCATOR TRANSMITTER			
	23-24-01-2A	23-007-01	PAGE	3 OF	3 DEC 22/03