

ZONES: 253
 A/C NUMBER:
 REV. DATE: 09/20/07
 FREQUENCY: 1C

W/C NUMBER: 223M3101 DATE:

MFR P/N	DESCRIPTION	QTY
VARIOUS	ADHESIVE TAPE	A/R
VARIOUS	METAL BRAID (6" IN LENGTH) FABRICATE LOCALLY	1
DK100	ULB	A/R
ELP362D	ULB	A/R

TOOLS	DESCRIPTION	QTY
42A12	ULB ULTRASONIC TEST SET (OR EQUIVALENT)	1

REFERENCES

AMM 25-22-02/401, 31-31-01/201, 31-31-02/201

MECH INSP

| MPD ITEMS: 31-31-02-2B, 31-31-02-2C

REPLACE THE DIGITAL FLIGHT DATA RECORDER UNDERWATER LOCATOR BEACON (ULB) AT THE MANUFACTURER'S ULB LIFE LIMIT.

OPERATIONALLY TEST THE DIGITAL FLIGHT DATA RECORDER ULB.

INTERVAL: LIFE LIMIT IS SIX (6) YEARS FROM DATE OF MANUFACTURE. OPERATIONAL TEST LIMIT IS 24 MONTHS.

ACCESS NOTE: ACCESS THROUGH LOWERED CEILING PANEL AT STA 1640.

| 1. ACCESS THE DFDR AND THE ULB

| A. REFERENCES

| (1) AMM 31-31-01/201, DIGITAL FLIGHT DATA RECORDER

| (2) AMM 25-22-02/401, LOWERED CEILING PANELS

| B. PROCEDURE

| (1) GAIN ACCESS TO THE DFDR ULB BY OPENING THE LOWERED
 | CEILING PANEL (REF. AMM 25-22-02) AS NECESSARY TO
 | DETERMINE DATE OF EXPIRATION.

| (2) CHECK THE EXPIRATION DATE OF THE DFDR ULB AND CALCULATE
 | THE NEXT PROJECTED INSPECTION DATE TO BE USED FOR THIS
 | INSPECTION.

| (a) CURRENT MONTH AND YEAR _____ PLUS (+) MAINTENANCE
 | PROGRAM LIMIT {3 MONTHS} EQUALS (=):

| NEXT PROJECTED INSPECTION DATE: _____

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 223M3101 (continued)

MECH: INSP:

(b) RECORD THE FOLLOWING DATA:

1) MFG P/N _____ S/N _____

2) EXPIRATION DATE _____

(c) IF EXPIRATION DATE OCCURS ON OR BEFORE THE NEXT PROJECTED INSPECTION DATE, AS DETERMINED IN STEP 1.B.(2) (a) ABOVE, REPLACE THE ULB PER STEP 2. AND TEST PER STEP 3. BELOW. IF EXPIRATION DATE OCCURS AFTER THE NEXT PROJECTED INSPECTION DATE, MARK STEPS 2.B. AND 2.C. BELOW "N/A" AND PROCEED TO ULB OPERATIONAL TEST, STEP 3. BELOW.

EXAMPLE: IF TODAYS DATE WERE 11/95 (+) 3 MONTHS (=) A NEXT PROJECTED INSPECTION DATE OF 02/96. IF THE EXPIRATION DATE RECORDED IN STEP 1.B.(2) (b)2) OCCURS PRIOR TO THIS DATE (02/96), REPLACE THE ULB.

2. REMOVE/INSTALL UNDERWATER LOCATOR BEACON.

NOTE: THIS STEP IS NOT REQUIRED UNLESS ULB HAS EXPIRED, WILL EXPIRE WITHIN 3 MONTHS, OR FAILS THE OPERATIONAL TEST.

A. REFERENCE

- (1) AMM 31-31-01/201 DIGITAL FLIGHT DATA RECORDER
(2) AMM 31-31-02/201, UNDERWATER LOCATOR BEACON MAINTENANCE PRACTICES

XXXXX B. REMOVAL PROCEDURE

- (1) REMOVE THE DFDR FROM THE RACK (REF. AMM 31-31-01).
(2) REMOVE THE ULB FROM THE DFDR (REF. AMM 31-31-02).
(3) TAG THE REMOVED ULB AND ROUTE TO STORES.

XXXXX C. INSTALLATION PROCEDURE

CAUTION: ENSURE THE ULB INSTALLED WILL NOT EXPIRE WITHIN THE NEXT 3 MONTHS.

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 223M3101 (continued)

MECH: INSP:

| (1) INSTALL A SERVICABLE ULB ON THE DFDR (REF. AMM 31-31-02)
| WITH THE EXPIRATION DATE PLAINLY VISIBLE.

| NOTE: IF THE ULB HAS A VERTICAL MOUNT, INSTALL THE ULB
| WITH THE WATER SWITCH DOWN. IF THE ULB HAS A
| HORIZONTAL MOUNT, INSTALL THE ULB WITH THE WATER
| SWITCH TO THE LEFT.

| (2) INSTALL THE DFDR IN THE RACK (REF. AMM 31-31-01).

| 3. UNDERWATER LOCATOR BEACON - OPERATIONAL TEST.

| A. UNDERWATER LOCATOR BEACON (ULB) OPERATIONAL TEST
| (USING MODEL 42A12 TEST SET)

| _____ XXXXX (1) MAKE SURE THE BEACON CASE AND WATER SWITCH IS CLEAN
| AND DRY PRIOR TO TESTING.

| NOTE: IF NEEDED, THE WATER SWITCH MAY BE CLEANED WITH
| A MILD DETERGENT AND THOROUGHLY DRIED WITH A CLEAN
| CLOTH.

| _____ XXXXX (2) PUT THE ULTRASONIC TEST SET APPROXIMATELY 3 FEET FROM
| THE ULB.

| _____ XXXXXX (3) SET THE "ON-OFF-GAIN" CONTROL ON THE TEST SET TO THE
| MIDDLE POSITION.

| (a) MAKE SURE YOU HEAR A BACKGROUND NOISE THROUGH THE
| EARPHONE ON THE TEST SET.

| _____ XXXXXX (4) SET THE "TUNING CONTROL" TO 37.5 +/-1 KHZ.

| _____ XXXXXX (5) SET THE "INPUT SELECTOR" SWITCH TO THE "INT" POSITION.

| _____ XXXXXX (6) MAKE SURE THE TEST SET OPERATES CORRECTLY.

| (a) SHAKE A SET OF KEYS OR SOME COINS IN FRONT OF THE
| MICROPHONE TO MAKE SURE IT WORKS.

| NOTE: THIS WILL SUPPLY ULTRASONIC SOUND.

| 1) MAKE SURE YOU HEAR SOUNDS THROUGH THE TEST SET
| EARPHONE.

| _____ XXXXXX (7) ATTACH A PIECE OF METALLIC BRAID TO THE ULB CASE AND

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 223M3101 (continued)

MECH: INSP:

-
- | 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.

 - | _____ XXXXX (8) THE ULB IS TURNED ON WHEN YOU SHORT THE CENTER CONDUCTOR OF THE WATER SWITCH AND THE CASE OF THE ULB WITH A PIECE OF METALLIC BRAID.

 - | CAUTION: A RAPID OR ACCELERATING PULSE RATE USUALLY INDICATES A FAULTY CIRCUIT. IF NORMAL OPERATION IS NOT INDICATED, RETURN THE BEACON TO THE MANUFACTURER FOR SERVICE.

 - | (a) MAKE SURE YOU HEAR A PULSED TONE AT 1 SECOND INTERVALS.

 - | _____ XXXXX (9) TURN OFF THE TEST SET & REMOVE THE METALLIC BRAID FROM THE ULB CASE AND THE CENTER OF THE WATER SWITCH.

 - | _____ XXXXX (10) PLACE THE NEGATIVE LEAD OF THE HIGH IMPEDENCE VOLTMETER ON THE WATER SWITCH PIN AND THE POSITIVE LEAD OF THE METER ON THE BEACON CASE OR MOUNTING KIT (IF INSTALLED).

 - | _____ XXXXX (11) MEASURE THE BATTERY VOLTAGE. VOLTAGE SPECIFICATIONS ARE LISTED IN TABLE 1 BELOW. THE BEACON IS OPERABLE AT THE GIVEN MINIMUM ACCEPTABLE VOLTAGE. IF THE BATTERY VOLTAGE IS BELOW THE MINIMUM ACCEPTABLE, REPLACE THE BEACON WITH A SERVICABLE UNIT AND RETURN THE REMOVED BEACON TO THE MANUFACTURER.

 - | NOTE: DUKANE DK100 ULBS HAVE A "BATTERY CODE" BLOCK LOCATED IN THE LOWER RIGHT CORNER OF THE IDENTIFICATION LABEL. IF THE BLOCK IS BLANK, USE THE "NO CODE" VALUE FROM TABLE 1 BELOW. DATASONICS ELP362D ULBS DO NOT UTILIZE BATTERY CODING. USE THE "NO CODE" VALUE FROM TABLE 1 BELOW.

TABLE 1

CODE	MINIMUM ACCEPTABLE VOLTAGE
(NO CODE)	7.10 VOLTS

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 223M3101 (continued)

MECH: INSP:

	A	3.55 VOLTS	

	B	2.97 VOLTS	

	C	2.97 VOLTS	

	D	2.97 VOLTS	

| _____ XXXXX (12) REPLACE ANY UNIT THAT FAILS ANY STEP OF THIS
 | OPERATIONAL TEST PER STEP 2., ABOVE.

| _____ XXXXX (13) CLOSE LOWERED CEILING PANEL (REF. AMM 25-22-02).

*****END OF WORKCARD*****