DoDDS-EUROPE MUSICAL INSTRUMENT REPAIR FACILITY



REFERENCE GUIDE 2000

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DODDS-E MUSICAL INSTRUMENT REPAIR FACILITY DoDAAC – HE1381

COMMERCIAL ADDRESS:

DoDDS-E Repair Facility Musical Instrument Repair Ludwig Wolkerstrasse 10 GEB. 4003 55252 Mainz Kastel

APO ADDRESS:

DoDDS-Europe Musical Instrument Repair Unit 29649 Box 7400 APO AE 09096

TELEPHONE NUMBERS:

DSN - 334-2472/2323 COM - 06134- 604472/323 OUTSIDE GERMANY - (0049) 6134-604472/323 FAX - (0049) (0)6134-1252

> HOURS OF OPERATION MONDAY – FRIDAY 0700 - 1600

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A. TURN IN PROCEDURES

1. MUSIC DIRECTORS:

a. All DoDDS owned wind instruments must be turned in for repair as they become inoperable, and/or on a regular schedule for periodic maintenance. Schools must turn instruments in, a few at a time, throughout the entire calendar year.

- WOODWIND INSTRUMENTS EVERY 2 - 3 YEARS

- BRASS INSTRUMENTS EVERY 1 - 2 YEARS

b. Complete and attach DA Form 2402 Repair/Exchange Tag for each instrument as follows: (SEE ATTACHMENT #1)

BLOCK 1 SUPPORT AGENCY AMERICAN MIDDLE SCHOOL

BLOCK 2 DATE 01/01/02

BLOCK 3 ORGANIZATION (DODAAC) HE1001

BLOCK 9 END ITEM NOUN NOMENCLATURE ALTO SAX

BLOCK 10 MODEL BUNDY

BLOCK 11 SERIAL NO 1040100

BLOCK 12 DEFICIENCY OR SYMPTOM WON'T PLAY

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c. Ensure that all parts are included in each instrument case, and bring the items to your school supply technician.

2. SUPPLY TECHNICIAN:

- a. All musical instruments serviced by the repair facility are Expendable/Durable items and must be listed in the schools DSAMMS database.
- b. Enter "HE1381-JulianDate" in the Location field for each serial record.
- c. Print a Report by Location for "HE1381-JulianDate".
- d. Create a new CRN and type or print it at the top right of the HE1381 Report by Location. (SEE ATTACHMENT #2)

** Do not send this report to the DoDDS Property Section. This document is used to receive items at the repair facility. The repair facility will determine which of these items will be exchanged, and use this CRN to transfer items from the school to the repair facility.

3. SENDING/DELIVERING INSTRUMENTS:

- a. Secure each instrument in their case. Smaller instruments should be grouped together in boxes. (Be sure to include the Location Report)
- b. Contact the repair facility to provide shipping information.
- c. Send packages CERTIFIED MAIL (MPS)
- d. An appointment is required before delivering musical instruments to the repair facility.

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B. <u>REPAIR FACILITY</u>

1. RECEIVING:

- a. Instruments will be accepted and repaired on a first come, first served basis.
- b. The repair facility will verify that all instruments are listed correctly on the schools official hand receipt. Instruments not listed on the official hand receipt will not be accepted for repair until the school provides inventory adjustment paperwork.
- c. A repair facility representative will sign the Report by Location and provide the school with a copy as a receipt for the items.
- d. The school instruments will be entered into the repair facility work register as awaiting repair.

2. REPAIR/EXCHANGE PROCEDURES:

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- a. A repair technician will determine whether the instrument can be repaired within a reasonable amount of time, exchanged for another like instrument, or directed to the Defense Reutilization and Marketing Office (DRMO).
- b. If an instrument is exchanged, a transaction register will be completed using the incoming CRN to transfer instruments from the school to the repair facility. (SEE ATTACHMENT #3)
- c. A second transaction register will be completed to transfer the exchanged instruments from the repair facility to the school. (SEE ATTACHMENT #4)

THESE TWO DOCUMENTS MUST BE SIGNED UPON RECEIPT AND RETURNED TO THE REPAIR FACILITY!

d. A release report will be generated by the repair facility listing the school instruments that are repaired and returned. The school should use this report to remove HE1381-JulianDate from the location field of each serial record. (SEE ATTACHMENT #5)

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C. SUMMARY OF REPAIR OPERATIONS

1. PICCOLO AND FLUTE - Complete repad: Completely disassemble. Remove all old pads, corks, and felts. Clean keys and body using silver cleaner and buffing compounds, to provide a pleasant appearance. Remove all key pins. Clean all key rods and hinge tubing. Straighten bent key rods and pivot screws. Replace all pads with double bladder, pressed felt, high quality pads, using the thickness recommended by the manufacturer specifications. Replace all corks and felts using the thickness recommended by the manufacturer specifications. Replace head joint cork. Replace springs as needed. Silver solder all broken keys. Soft solder loose parts such as tenon rings, lip plate, key posts. Remove all dents from body parts. Adjust tenon joints for proper assembly. Replace missing or damaged parts. Completely assemble. Center all key cups over tone holes. Float all pads to ensure that they seal completely around each tone hole. Perform all regulations and adjustments to meet manufacturer specifications. Remove all lost motion (play) in keys. Adjust venting (key height) to ensure proper intonation. Play test using a light touch.

2. ALL CLARINETS and OBOE - Complete repad: Completely disassemble. Remove all old pads, corks, and felts. Clean keys using a silver cleaner and buffing compounds, to provide a pleasant appearance. Clean all body parts including tone holes and bore. Clean all key rods and hinge tubing. Straighten bent key rods and pivot screws. Replace all pads with double bladder, pressed felt, high guality pads, using the thickness recommended by the manufacturer specifications. Replace all key corks and felts using the thickness recommended by the manufacturer specifications. Replace all tenon corks using 1/16" or 3/64" thick cork. Replace springs as needed. Silver solder broken keys. Secure all loose posts. Tighten loose tenon rings. Repair cracked or broken body parts. Replace missing or damaged parts. Remove dents on bells (alto and bass). Completely assemble. Center all key cups over tone holes. Float all pads to ensure that they seal completely around each tone hole. Perform all regulations and adjustments to meet manufacturer specifications. Remove all lost motion (play) in keys. Adjust venting (key height) to ensure proper intonation. Each section should be airtight. Play test using a light touch.

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3. BASSOON- Complete repad: Completely disassemble. Remove all old pads, corks, and felts. Clean keys using a silver cleaner and buffing compounds, to provide a pleasant appearance. Clean all body parts including tone holes and bore. Clean all key rods and hinge tubing. Replace all pads with white kid leather pads using the thickness recommended by the manufacturer specifications. Replace all key corks and felts using the thickness recommended by the manufacturer specifications. Replace all tenon corks, bocal cork, and U tube cork using 1/16" or 3/64" thick cork. Replace springs as needed. Straighten keys and rods. Silver solder broken keys. Tighten loose posts. Repair cracked or broken body parts. Replace missing or damaged parts. Completely assemble. Center all key cups over tone holes. Float all pads to ensure that they seal completely around each tone hole. Perform all regulations and adjustments to meet manufacturer specifications. Remove all lost motion (play) in keys. Adjust venting (key height) to ensure proper intonation. Play test using a light touch.

ALL SAXOPHONES - Complete repad: Completely disassemble. Remove all old pads, corks, and felts. Clean keys using a silver cleaner and buffing compounds, to provide a pleasant appearance. Chemically clean body and mouthpipe using a phosphoric acid solution such as [™] Etch Klenz, or a similar substitute. Clean all key rods and hinge tubing. Replace all pads with tan leather, woven felt, acoustic series, plastic resonator pads, using the thickness recommended by the manufacturer specifications. Replace all key corks and felts using the thickness recommended by the manufacturer specifications. Replace springs as needed. Remove all dents from body and mouthpipe. Straighten bent body and posts. Level all tone holes. Soft solder loose body parts. Silver solder broken keys. Buff, polish, and spot lacquer as needed to provide a pleasant appearance. Straighten bent keys, key rods and pivot screws. Replace missing or damaged parts. Completely assemble. Center all key cups over tone holes. Swedge keys to remove any play. Float all pads to ensure that they seal completely around each tone hole. Perform all regulations and adjustments to meet manufacturer specifications. Remove all lost motion (play) in keys. Adjust venting (key height) to ensure proper intonation. Play test using a light touch.

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5. TRUMPET, BARITONE AND TUBA – Completely disassemble. Pull stuck slides. Chemically clean all parts using a phosphoric acid solution such as [™] Etch Klenz, or a similar substitute. Remove all organic deposits from inside tubing and valve casings using a flexible cleaning snake and cleaning brushes. Remove all accessible dents. Align mouthpipe, bell and slides to meet manufacturer specifications. Soft solder all broken joints. Replace all broken braces. Repair bent or damaged valves and valve casings. Replace all valve corks and felts for proper alignment of valve ports. Replace all waterkey corks. Replace waterkey springs as needed. Buff, polish, and spot lacquer as needed to provide a pleasant appearance. Completely assemble. Align tuning slides for proper ease of movement. Grease all slides. Oil valves. Play test.

6. FRENCH HORN – Completely disassemble. Pull stuck slides. Chemically clean all parts using a phosphoric acid solution such as ™ Etch Klenz, or a similar substitute. Remove all organic deposits from inside tubing and valve casings using a flexible cleaning snake and cleaning brushes. Remove all accessible dents. Align mouthpipe, bell and tuning slides to meet manufacturer specifications. Soft solder all broken joints. Replace all broken braces. Buff, polish, and spot lacquer as needed to provide a pleasant appearance. Restring valves. Replace valve bumpers. Adjust rotor valves. Replace all waterkey corks. Replace springs as needed. Align tuning slides for proper ease of movement. Grease all slides. Oil valves. Play test.

7. TROMBONE – Completely disassemble. Pull stuck tuning slide. Chemically clean all parts using a phosphoric acid solution such as ™ Etch Klenz, or a similar substitute. Remove all organic deposits from inside tubing using a flexible cleaning snake and cleaning brushes. Remove all accessible dents. Align hand slide for proper ease of movement. Align tuning slide for proper ease of movement. Replace and adjust bumper corks and felts. Replace waterkey cork. Replace waterkey spring as needed. Soft solder all broken joints. Replace all broken braces. Buff, polish, and spot lacquer as needed to provide a pleasant appearance. Play test.

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8. All case repair or replacement as needed.

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- 9. Percussion and stringed instruments may be repaired on an emergency basis, if economical.
- 10. Electronic musical instruments must be repaired at the school level.

D. PREVENTIVE MAINTENANCE TIPS

- 1. WOODWIND INSTRUMENTS:
- a. Swab out instruments after playing to remove excess moisture, which can adversely affect the life of the instrument and pads.
- b. Disassemble instruments with tenon corks to prevent corks from becoming compressed, which may cause a leaky or wobbly joint.
- c. Insert the end plug in the saxophone mouthpipe receiver when instrument is not in use to protect the octave lever from damage.
- d. To prevent cracking, avoid exposing wooden instruments to extreme changes in temperature or humidity.
- e. Do not store music books, thick cleaning rags, etc. in instrument cases.
- 2. WOODWIND ASSEMBLY:
- a. Flute Close keys on foot joint with palm of hand, assemble joints with a twisting motion being careful not to bend keys. Never use oil or cork grease on joints. If a joint is too tight or too loose, it must be sent to the repair facility for adjustment.
- b. Clarinet Close D/A ring key, assemble upper and lower joints with a gentle twisting motion until bridge keys are aligned. Assemble barrel, bell and mouthpiece with a twisting motion being careful not to bend keys. Cork grease should be used in SMALL amounts as needed.
- c. Saxophones Make sure the neck screw is loosened before assembling or disassembling the neck. Insert the neck using a gentle twisting motion being careful not to bend the octave key and lever mechanism. Generally, the bottom brace of the neck should be aligned with the posts of the octave key lever.

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- 3. BRASS INSTRUMENTS:
- a. Grease the slides with slide grease (not oil) and move them in and out on a weekly basis to prevent sticking or frozen slides.
- b. Disassemble instrument and flush with warm water and a mild dish detergent approximately once a month. Use a cleaning snake to remove deposits from inside tubing. A mouthpiece brush should be used to clean the mouthpiece once a week.
- c. Always insert the mouthpiece with a twisting motion, and remove it by twisting the in the opposite direction. If the mouthpiece gets stuck, it must be removed using a special mouthpiece-pulling tool only.
- d. When lying a trumpet/cornet down, place it in the same manner as it lies in the case. Never lie it on the 2nd valve slide tubing, which can damage the valve and/or valve casing.

The Repair Facility invites all DoDDS-E instrumental music teachers to attend a two-day seminar on preventative maintenance and minor repair of musical instruments. This repair seminar will be conducted at the Repair Facility upon demand, and can be worth 1 graduate credit. Please request travel orders through your chain of supervision and contact the Repair Facility if you are interested in attending a session.

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SAMPLE DA FORM 2402 REPAIR/EXCHANGE TAG

: MAY 81 10.	1015-00571. and 738-751	1. SUPPORT AGENCY	. ha	5 6	DATE 199	¢ορΥ 1
Edition of MAY is obsolete.	15.750 736-750	5. NSN	DDAAC)	4. WARRANTY	IANGE	
		END ITEM	8. PD AUTHENTIC 9. END ITEM NOU	N NOMENCLATURE ALTO	DIOO SAX	
: 1991-301	CONFIGURATION	12. DEFICIENCY OR S	MPTOM WOA 14. SIGNATURE	1040100 ST PLAY	15. NMCS	2402
ÅU.S. @00	EXCHANGE	16. JON 18. DATE REPAIRED	1	17. INITIALS	<u>}</u>	DA FORM 2402 DEC 85

BLOCK 1 – ENTER SCHOOL NAME BLOCK 2 – ENTER DATE BLOCK 3 – ENTER DODAAC BLOCK 8 – ENTER BAR CODE # BLOCK 9 – ENTER INSTRUMENT NOMENCLATURE BLOCK10 – ENTER MANUFACTURER OR MODEL BLOCK11 – ENTER SERIAL NUMBER BLOCK12 – ENTER DEFICIENCY

-ATTACHMENT 1-

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Area Custody Receipt must inform the Man any/all	KING	BUNDY	SELMER	ARMSTRONG	BUNDY	MANUFACTURER	CEIPT REPORT BY LOC IGH SCHOOL
SAMPLE TURN IN DOCUMENT							ATION (A
REPORT BY LOCATION (ACR) HE1381							CR) HE13
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-ATTACHMENT 2-

HE4411-9361-1001

07/22/99 07:45:18

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CRN: HE1625-9134-0001

Originator: HE1625 LAKENHEATH MIDDLE SCHOOL

Receiver: HE1381 MUSICAL INSTRUMENT REPAIR FACILITY

	STOCK NUMBER	LOCATION	NOUN					
ITEM	SERIAL NO.	BAR CODE	MANUFACTURER	UNIT	QTY	CODE	ACTION	UNIT PRICE
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	140310	100115585	ARTLEY					
0002	7710		CLARINET B-FLAT ARTLEY	EA	1		υ	176.00
	153346	100199738	ARTLEY					
0003	7710		CLARINET B-FLAT KING	EA	1		U	176.00
	616656	100115316	KING					
0004	7710		FLUTE GEMEINHARDT	EA	1		IJ	227.00
	F25429	100265679	GEMEINHARDT					
0005	7710		SAX ALTO KING	EA	l		ប	560.00
	N197794	100198247	KING					

\$1,315.00 TOTAL

SAMPLE TRANSACTION REGISTER INCOMING INSTRUMENTS

NOTE: CRN MUST BE DUPLICATED WHEN DROPPING THESE ITEMS FROM YOUR DATABASE

Julian Date:	9134		
H/R HOLDER:		PropCust:	Receiver:

-ATTACHMENT 3-

07/22/99 07:44:38

Originator: HE1381 MUSICAL INSTRUMENT REPAIR FACILITY

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CRN: HE1381-9202-1625

Receiver: HE1625 LAKENHEATH MIDDLE SCHOOL

	STOCK NUMBER	LOCATION	NOUN					
ITEM	SERIAL NO.	BAR CODE	MANUFACTURER	UNIT	QTY	CODE	ACTION	UNIT PRICE
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0001	7710	READY5	CLARINET B-FLAT ARTLEY	EA	1		D	176.00
	177007	100208074	ARTLEY					
				.,				,
0002	7710	READY5	CLARINET B-FLAT ARTLEY	EA	1		D	, 176.00
	147935	100305333	ARTLEY					
0003	7710	READY5	CLARINET B-FLAT BUNDY	EA	1		D	176.00
	1181124	100273001	BUNDY .					
0004	7710	READY2	FLUTE KING	EA	1		ם	227.00
	5364	100197709	KING					
0005	7710	READYS	SAX ALTO BUNDY	EA	1		α	560.00
	1048008	100144068	BUNDY					
								\$1 215 00 000

\$1,315.00 TOTAL

SAMPLE TRANSACTION REGISTER OUTGOING INSTRUMENTS

NOTE: CRN MUST BE DUPLICATED WHEN ADDING THESE ITEMS TO YOUR DATABASE

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Julian Date:		
H/R HOLDER:	 PropCust:	Receiver:

-ATTACHMENT 4-

Release Report for SIGONELLA HS

27-Dec-99

INSTRUMENT	MAKE	SERIAL NUMBER	s/0
FLUTE	KING	12580	0
FLUTE ARMSTRONG		11581	0
FLUTE	ARMSTRONG	46075	S
FLUTE	ARMSTRONG	73924	S
CLARINET	BUNDY	1155828	S
CLARINET SIGNET		31289	0
CLARINET SIGNET		27573	0
CLARINET BUNDY 1486009		1486009	S
ALTOSAX	BUNDY	939926	S
TRUMPET KING 9917		991713	S
TRUMPET	BUNDY	545030	S
TRUMPET	KING	124826	s

SAMPLE RELEASE REPORT (WHEN THE SAME INSTRUMENT IS REPAIRED AND RETURNED TO THE OWNING SCHOOL)

-ATTACHMENT 5-

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