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Maintenance



**COMPOSITE TOOL KIT (CTK) AND TEST
EQUIPMENT MANAGEMENT PROGRAM**

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This instruction implements Air Force Policy Directive (AFPD) 21-1, *Managing Aerospace Equipment Maintenance*. It establishes procedures not directly covered by AFRCI 21-101, *Aircraft Maintenance Guidance and Procedures*. It further lists the work centers assigned Consolidated Tool Kit (CTK) numbers. This Wing Instruction applies to all wing personnel.

SUMMARY OF REVISIONS

This revision changes the series publication number from 442 FWI 21-5 to 442 FWI 21-105; updates the format and directives. Further, it changes Maintenance Operations Center (MOC) to Maintenance Control Function (MCF) (paragraph 2.8.). A (I) indicates revisions from the previous edition.

1. Responsibilities. Squadron OICs/NCOICs determine the additional guidance and the CTK numbers.

2. Procedures:

2.1. If replacement of a tool falls within the guidelines of the warranted tool program, the CTK custodian or alternate will insure that the broken or defective tool is disposed of properly. This is usually a one for one swap with the warrantor. Depot/Contract field teams or factory representatives, while assigned to the 442d Fighter Wing (FW), need to comply with this instruction completely. However, they should have control over their tools.

2.2. Personal equipment (i.e., ear defenders, etc.) will either be assigned to a CTK/shadowboard or marked with the individual's last name, employee number and work center.

2.3. Expendable hand tools that are consumed in use, may be placed on bench stock. These items will be stored in an inaccessible secured area. The CTK custodian or their alternate will control replacements and only issue expendable tools in accordance with AFRCI 21-101.

2.4. Limited benchstock items/consumables are authorized for a CTK, however, they must be marked and included on the CTK inventory list.

2.5. The use of chits is discouraged, but is allowed if all personnel are assigned a permanent chit number.

2.6. One person shops will have his/her supervisor or designated representatives authorized to purchase tools.

2.7. Passing or transferring of CTKs at the job site is highly discouraged, but is permitted if both parties agree to the contents. The individual receiving the CTK then assumes responsibility for the turn in and accountability.

2.8. If a tool or any object is discovered missing after the aircraft has taxied or taken off, Maintenance Control Function (MCF) will be notified in the most expedient manner. MCF will notify the Supervisor of Flying (SOF) and either direct the return of the aircraft (after take off) or request aircraft be held in the arming area (taxi) until the missing tool can be located. No aircraft that has had maintenance performed prior to take off will be allowed to fly if there is a tool missing from the applicable CTK.

Table 1. Work Center CTK Numbers

Fighter Squadron Maintenance	
<u>Flight Line (A & B Flights)</u>	0-1A thru 0-1S, F-30A, F-11A, F-14C, 0-2Z, 0-3A thru 0-3Y, 0-1 thru 0-3, 0-5 thru 0-8
<u>Specialist Flight</u>	A-2SF, A-3ASF thru A-3SF, A-3J, F-22C, F-22D, F-22E, F-22F, F-22G, F-22H, F-22J, F-22L, F-22M A-2J, A-2L, A-2M, A-2N, A-2P
<u>Weapons Flight</u>	WL-01A thru WL-12A, WL-01B thru WL-12B, WL-13 thru WL-16, WL-17A thru WL-17C
<u>Inspection Flight</u>	D-1 thru D-10, 0-4
Maintenance Squadron	
<u>Avionics Flight</u>	
IATS	A2A thru A2D, A-3, A-5, A3G, A2K, A3H, A3I
ECM	A-1, A-1A thru A-1Z, A-4 thru A-4Z, CB16, CB17
Sensor	A-6, A-7, A-6A thru A-6Z
<u>Propulsion Flight</u>	F-13A thru F-13Z, F-14A, F-14B, F-15 thru F-19, F-19A thru F-19Z, F-17A thru F-17Z
AGE Flight	F-36 thru F-43, F-36A thru F-41A, F-36B thru F-41B, F-42A thru F-42E, F-43A thru F-43E
<u>Accessory Maintenance Flight</u>	
Electric/Environmental	F-22, F-22A thru F-22Z, F-34
Pneudraulics	F-30, F-30C thru F-30Z
Fuel Systems	F-27, F-27A thru F-27Z, F-28A thru F-28Z, F-35
Egress	E-1, E-1A thru E-1Z, E-2, E-2A thru E-2Z, E-3, E-3A thru E-3Z
Repair/Reclamation	F-23, F-23A thru F-23Z, F-24, F-24A thru F-24Z, CR-23, CR-23A thru CR-23Z, ST-23, ST-23A
<u>Fabrication Flight</u>	
Survival	F-5, F-5A thru F-5Z
Structural Maintenance	F-1, F-1A thru F-1Z, F-10, F-10A thru F-10Z
Metals Technology	F-2, F-2A thru F-2Z, F-3, F-3A thru F-3Z
NDI	F-8, F-8A thru F-8Z
<u>Munitions Flight</u>	
Munitions Storage	MM-1 thru MM-25
Armament Shop	AS-1 thru AS-9, AS-7A thru AS-7D, AS-6A thru AS-6J, AS-1A thru AS-1E, AS-2A thru AS-2E, AS-3A thru AS-3E

Quality Assurance	QA-01
Life Support	LS-1 thru LS-10

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Attachment 1

GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION

References

AFPD 21-1--*Managing Aerospace Equipment Maintenance*

AFRCI 21-101--*Aircraft Maintenance Guidance and Procedures*

AFI 21-101--*Maintenance Management of Aircraft*