

551-88K-3755
Operate a Simple Key Loader (SKL)
Status: Approved

Security Classification: U - Unclassified

Distribution Restriction: Approved for public release; distribution is unlimited.

Destruction Notice: None

Foreign Disclosure: FD1 - This training product has been reviewed by the training developers in coordination with the Transportation School, JBLE, VA 23604 foreign disclosure officer. This training product can be used to instruct international military students from all approved countries without restrictions.

Conditions: Assigned as a Watercraft Operator onboard a class A or B vessel. On order operate a Simple Key Loader (SKL) in an operational environment scenario, in all weather conditions day or night, in port or at sea. Given a complete risk assessment, TM 11-5810-410-13 & P, applicable references, forms, records, tools, materials, personnel and equipment. Some iterations of this task should be performed in MOPP 4.

Standards: Operate a Simple Key Loader (SKL) in accordance with TM 11-5810-410-13 & P. Comply with all warnings, cautions, and notes listed in all references. Soldier must perform this task by ensuring equipment is operational, perform all presets, manage and transfer the database, load assigned key and power down the system without errors, injuries to personnel or damage to equipment utilizing GO or NO GO criteria.

Special Conditions: None

Safety Risk: Low

MOPP 4: Sometimes

Task Statements

Cue: Perform installation procedures; if not required go to step 2.

DANGER
None

WARNING

General Handling Guidelines for Valence Technology Lithium-Ion Polymer Cells

- Do not expose the cell to extreme heat.
- Do not disassemble or modify the cell.
- Do not use soldering methods when connecting to the cell leads.
- Do not puncture the cell or in any way breach the cell packaging.
- Do not use a cell that appears to be damaged or deformed is discolored or appears to have defects in the heat seal areas.
- Keep the cells dry and away from water.
- Avoid placing cells on metal surfaces. Avoid external short-circuiting of cell leads in general.
- Do not fold, bend, or apply excessive pressure to the main body of the cell (inside the sealed areas).
- If heat seal flanges are to be folded, do so in a manner that mechanical pressure is not transmitted to internal components. It is recommended that Valence engineering be consulted in the event that any alteration of the edge fold is considered.
- The edge of the heat seal flange is electrically conductive (see Application Note, VT-AN-004).
- Avoid installation or placement of cells in such a manner that this edge could come in contact with other cell terminals, printed circuit boards or other conductive surfaces in general. 60°C can be used to extend cycle life at the elevated temperatures.
- Do not use the battery pack in combination with primary battery pack (such as a dry-cell battery pack) or battery packs of different capacities or brands. Otherwise, the battery pack can be overcharged during use or overcharged during recharging, abnormal chemical reactions may occur, possibly leading to acid leakage, overheating, smoke emission, bursting and /or ignition. In the event the batteries are swallowed, consult a doctor.
- If recharging operation fails to complete even when a specified recharging time has elapsed, immediately stop further recharging. Otherwise, acid leakage, overheating, smoke emission, bursting, and/or ignition can occur.
- Do not place the battery into a microwave oven or pressurized container. Rapid heating or disrupted sealing can lead to acid leakage, overheating, smoke emission, bursting, and/or ignition.
- If the battery pack leaks or gives off a bad odor, remove it from any exposed flame. Otherwise, the leaking electrolyte can catch fire, and the battery pack may emit smoke, burst, or ignite.
- If the battery pack gives off an odor, generates heat, becomes discolored or deformed, or in any way appears abnormal during use, recharging or storage, immediately remove it from the equipment or battery pack charger and stop using it. Otherwise, the problematic battery pack can develop acid leakage, overheating, smoke emission, bursting, and/or ignition.

DO NOT BE MISLED BY THE TERM "LOW VOLTAGE". POTENTIALS AS LOW AS 50 VOLTS MAY CAUSE DEATH UNDER ADVERSE CONDITIONS.

- For Artificial Respiration, refer to FM 4-25.11, First Aid for Soldiers.
- Review the precautions in TB 385-4, Safety Requirements for Maintenance of Electrical and Electronic Equipment before attempting repairs or service of electronic equipment.
- Always handle batteries carefully.
- Do not drop, puncture, disassemble, mutilate, or incinerate batteries.
- Touching both terminals of a battery with a metal object will short circuit the battery, which could cause an explosion or a fire. Do not carry batteries loosely if the contacts may touch coins, keys, and

other metal objects (such as in pockets or bags).

- Do not heat the batteries to try to rejuvenate their charge.
- Batteries may leak electrolytes that may cause irritation to the skin and eyes. Should this occur, irritated areas should be flushed thoroughly with water.

CAUTION

- Do not use or subject the battery pack to intense sunlight or hot temperature such as in a vehicle in hot weather. Do not use or leave battery near a heat source, such as fire or a heater (192°F). Otherwise, acid leakage, overheating, smoke emission, bursting, and/or ignition can occur. Also, its guaranteed performance will be lost and/or its service will be shortened.
- The battery pack incorporates built-in safety devices. Do not use in a location where static electricity (greater than the manufacturer's guarantee) may be present. Otherwise, the safety devices can be damaged possibly leading to acid leakage, overheating, smoke emission, bursting and or ignition.
- The guaranteed recharging temperature range is 0 to 40°C. A recharging operation outside this range can lead to acid leakage and/or overheating of the battery pack, and may cause damage to it.
- If acid leaking from the battery pack contacts your skin or clothing, immediately flush it thoroughly with running water. Otherwise, skin inflammation can occur.
- If you find rust, a bad odor, overheating, and/or other irregularities when using the battery pack for the first time, return it to your supplier or vendor.

Remarks: None

Notes: None

Performance Steps

1. Perform installation procedures (if not required go to step 2).

a. Conduct inventory. Note: Verify the following components are present: simple key loader, stylus, battery pack, high capacity lithium ion battery or standard lithium ion battery, battery charger assembly, crypto ignition key (CIK) and a USB adapter.

b. Assemble the battery charger.

c. Installation and removal of the crypto ignition key (CIK). Note: If the CIK is not already installed in the SKL locate the CIK that came with your SKL and follow the instructions below to install it.

(1) Open the CIK access door with the SKL facing you. Insert the CIK into the CIK slot. Note: Ensure the CIK is firmly seated in the CIK slot.

(2) Close and secure the CIK access door.

2. Power up the SKL.

3. Perform presets.

a. Calibrate stylus (if required).

b. Set auto power shutdown and backlight.

c. Reset KOV-21 card.

d. Create NEW Special Security Officer (SSO) password (if not required proceed to step "i").

e. Set and/or verify KOV-21 card time and date.

f. View the audit log. Note: If there are too many entries in it, the KOV-21 may NOT initialize and the user CANNOT log on.

g. Verify audit trail free space to ensure there is enough space to load additional COMSEC.

h. Clear audit trail.

i. Launch the SKL UAS software.

j. Create SKL user.

k. Change user password.

l. Activate night vision mode.

m. Disable four-way button.

n. Display summary status.

o. Set key view option.

p. Set profile mode.

q. Set keys prompt.

r. Set tree sort view.

s. Set keys load.

t. Enable audit warning message.

4. Manage database.

a. Add/load platform.

- (1) Select the desired platform to load from the plats tab.
- (2) Select FileTransmitLoad.
- (3) Execute each Profile step and then tap on the Send button.

b. Add/load equipment.

- (1) Select the equipment you want to load from the expanded platform from the Plats Tab.
- (2) Select FileTransmitLoad.
- (3) Execute each profile step and then tap on the send button. Note: The subsequent windows that open will vary depending on the equipment that you are trying to load.

c. Execute each profile step and then tap on the send button. Note: The subsequent windows that open will vary depending on the equipment that you are trying to load.

d. Assign key tag attributes.

e. Assign equipment to platform.

f. Set date and load filter.

g. Change key source (if required).

5. Transmit/transfer database.

a. Transfer preselected database to the SKL; select FileTransmitDatabase from the SKL main menu.

b. Select the individual database you wish to transmit from this window. Then tap on the next>> button.

c. After transfer mode window opens. Select the target device that is the intended destination of the database. Then tap on the next>> button.

d. Tap on the OK button to close it. The transmit database operation is now complete. Note: When the transfer is complete, an "Operation Successful" window will open.

e. Transfer data file from the jump drive to SKL.

f. Transfer a predetermined database SKL to SKL.

g. Transmit/receive using SINCGARS broadcast mode (only if radio is available).

6. Receive key procedures.

a. Receive key from KOK-22 (DS-101); select FileReceiveKey.

b. Select the key source from the key source list. Tap on the next>> button and follow the profile and tap on the finish button.

c. Tap on the OK button. (should see an "Operation Successful" indication). Note: The key should show up on the keys tab unless you have set a date load filter that precludes the key from being shown in the keys tab. The receive key function is complete at this time.

7. View SOI menu.

a. Select a single SOI edition and tap on the OK button from the edition window.

Note: To start the edition activation process, make sure that the SKL UAS SOI tab is open.

b. View SOI information; You should be able to expand the SOI tab and view the group, TPMD, NET, pyro, and smoke information. If you have added anything to the quick reference, you will be able to see that as well.

8. Load assigned key (Radio).

a. Load predetermined radio; from the plats tab, expand the platform, equipment, fill location, short title, and edition so that you can see the key assigned to the fill location.

b. Load selected location on predetermined radio; Select FileTransmitLoad.

c. Verify the assigned key is loaded in the radio.

9. Power down from the SKL UAS program.

a. Select FileExit from the SKL UAS main menu.

b. Select SessionLogout when the core library desktop opens.

c. After the KOV-21 LED goes out, depress and hold the power push button until you see the power down sequence begin.

(Asterisks indicates a leader performance step.)

Evaluation Guidance: Score the Soldier a GO if all performance measures are correctly completed/pass (P). Score the Soldier a NO-GO if any of the performance measures are missed or incorrectly performed/fail (F).

Evaluation Preparation: Test this task in accordance with applicable training material. Ensure Soldier understands why this task is important to support the overall training objective.

Setup: Test this task in accordance with prescribed references or Technical Manual (TM).

Brief Soldier: Tell the Soldier to adhere to all Safety precautions when performing the task listed.

Note: Ensure that all required equipment to perform this task is available.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Performed installation procedures (if not required go to step 2)?			
2. Powered up the SKL?			
3. Performed presets?			
4. Managed database?			
5. Transmitted/transferred database?			
6. Received key procedures?			
7. Viewed SOI menu?			
8. Loaded assigned key (Radio)?			
9. Powered down from the SKL UAS program?			

Supporting Reference(s):

Step Number	Reference ID	Reference Name	Required	Primary	Source Information
	TM 11-5810-410-13&P	OPERATOR AND FIELD MAINTENANCE MANUAL INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST FOR TRANSFER UNIT, CRYPTOGRAPHIC KEY SIMPLE KEY LOADER (SKL) USER APPLICATION SOFTWARE (UAS), VERSION 12.0 dated 01 Apr 2019	Yes	Yes	
	TM 11-5820-890-10-6	SINGARS ICOM GROUND RADIOS USED WITH AUTOMATED NET CONTROL DEVICE (ANCD); PRECISION LIGHTWEIGHT GPS RECEIVER (PLGR); HANDHELD REMOTE CONTROL RADIO DEVICE (HRCRD) OPERATORS POCKET GUIDE RADIO SETS MANPAC	Yes	No	
	TM 55-1925-314-10	Operator's Manual for U.S. Army Watercraft Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) Suite for Small Tug (ST)	Yes	No	
	TM 55-5825-311-10-1	OPERATORS MANUAL FOR U.S. ARMY WATERCRAFT COMMAND, CONTROL, COMMUNICATIONS, COMPUTERS, INTELLIGENCE, SURVEILLANCE, AND RECONNAISSANCE (C4ISR) SUITE (NSN 5825-01-508-2901) FOR LOGISTICS SUPPORT VESSEL (LSV) (1915-01-153-8801) LARGE TUG (LT)	Yes	No	
	TM 55-5825-311-10-2	OPERATORS MANUAL FOR U.S. ARMY WATERCRAFT COMMAND, CONTROL, COMMUNICATIONS, COMPUTERS, INTELLIGENCE, SURVEILLANCE, AND RECONNAISSANCE (C4ISR) SUITE (NSN 5825-01-508-2901) FOR LOGISTICS SUPPORT VESSEL (LSV) (1915-01-153-8801) LARGE TUG (LT)	Yes	No	

TADSS :

TADSS ID	Title	Product Type
55-50	Global Maritime Distress Signaling System (GMDSS)	SIM

Equipment Items (LIN):

LIN	Name
C05002	Computer System Digital: AN/PYQ-10(C)
FA2009	Radio Systems, Portable Non-Portable

Materiel Items (NSN) :

Step ID	NSN	LIN	Title	Qty
No materiel items specified				

Environment: Environmental protection is not just the law but the right thing to do. It is a continual process and starts with deliberate planning. Always be alert to ways to protect our environment during training and missions. In doing so, you will contribute to the sustainment of our training resources while protecting people and the environment from harmful effects. Refer to the current Environmental Considerations manual and the current GTA Environmental-related Risk Assessment card. It is the responsibility of all Soldiers and DA civilians to protect the environment from damage. AR 200-1 delineates TRADOC responsibilities to integrate environmental requirements across Doctrine, Organization, Training, Materiel, Leadership and Education, Personnel and Facilities (DOTMLPF) and ensure all training procedures; materials and doctrine include sound environmental practices and considerations.

The Army's environmental vision is to be a national leader in an environmental and natural resource stewardship for present and future generations as an integral part of all Army missions. This Training Support Package meets this standard.

Environmental protection is not just the law but the right thing to do. It is a continual process and starts with deliberate planning. Always be alert to ways to protect our environment during training and missions. In doing so, you will contribute to the sustainment of our training resources while protecting people and the environment from harmful effects. Refer to ATP-45.5 Environmental Considerations and GTA 05-08-002 ENVIRONMENTAL-RELATED RISK ASSESSMENT.

Safety: In a training environment, leaders must perform a risk assessment in accordance with current Risk Management Doctrine. Leaders will complete the current Deliberate Risk Assessment Worksheet in accordance with the TRADOC Safety Officer during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC). Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW current CBRN doctrine. In a training environment, leaders must perform risk management in accordance with ATP 5-19, Risk Management. Leaders will complete a DD Form 2977 DELIBERATE RISK ASSESSMENT WORKSHEET during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC), as well as any other variables.

All operations will be performed to protect and preserve Army personnel and property against accidental loss. Procedures will provide for public safety incidental to Army operations and activities and safe and healthful workplaces, procedures, and equipment. Observe all safety and/or environment precautions regarding electricity, cable, and lines. Provide ventilation for exhaust fumes during equipment operation and use hearing protection when required IAW AR 385-10, the Clean Air Act (CAA) and the CAA amendments, and the OSHA Hazard Communication standard.

Accidents are an unacceptable impediment to Army missions, readiness, morale, and resources. Decision makers at every level will employ risk management approaches to effectively preclude unacceptable risk to the safety of personnel and property affiliated with this task. (a) Take personal responsibility. (b) Practice safe operations. (c) Recognize unsafe acts and conditions. (d) Take action to prevent accidents. (e) Report unsafe acts and conditions.

No food or drink is allowed near or around electrical equipment (CPU, file servers, printers, projectors, etc.) due to possible electrical shock or damage to equipment. Exercise care in personal movement in and through such areas. Avoid all electrical cords and associated wiring. In event of electrical storm, you will be instructed to power down equipment.

Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW ATP 3-11.32, NBC Protection, ATP 3-11.32, CBRN Decontamination.

MODIFICATION HAZARD

Unauthorized modifications, alterations or installations of or to this equipment are prohibited and are in violation of AR 750-10. Any such unauthorized modifications, alterations or installations could result in death, injury or damage to the equipment.

HIGH PRESSURE HYDRAULIC SYSTEM HAZARDS

Hydraulic systems can cause serious injuries if high pressure lines or equipment fail. Never work on hydraulic systems or equipment unless there is another person nearby who is familiar with the operation and hazards of the equipment, and who can give first aid. A second person should stand by controls to turn off hydraulic pumps in an emergency. When the technicians are aided by the operators, the operators must be warned about dangerous areas.

MOVING MACHINERY HAZARDS

Be very careful when operating or working near moving machinery. Running engines, rotating shafts, and other moving machinery parts could cause personal injury or death.

ELECTRICAL HAZARDS

Whenever possible, the power supply to the equipment must be shut off before beginning work on the equipment. Do not be misled by the term "low voltage". Potentials as low as 50 volts may cause death under adverse conditions". Be careful not to contact 115-Vac input connections when installing or operating this equipment. Whenever the nature of the operation permits, keep one hand away from the equipment to reduce the hazard of current flowing through the body.

Prerequisite Individual Tasks : None

Supporting Individual Tasks :

Task Number	Title	Proponent	Status
551-88K-3705	Monitor Operations of High Frequency Radios System Onboard a Vessel	551 - Transportation (Individual)	Approved
551-88K-3712	Conduct COMSEC Operations	551 - Transportation (Individual)	Approved
551-88K-3702	Operate Tactical Radio Onboard a Vessel	551 - Transportation (Individual)	Approved
551-88K-3711	Operate Tactical Satellite Communication Radio	551 - Transportation (Individual)	Approved

Supported Individual Tasks : None

Supported Collective Tasks : None

Knowledges : None

Skills : None

ICTL Data : None