

Memorandum for Record

Subject: **Upgrade to the MBU**

1. The Army is upgrading the MBU. This upgrade will expand the range of heat output from its current range of 22,000-47,000 BTU/hr to 11,000-53,500 BTU/hr. This upgrade will involve replacing the fuel delivery block with a new one containing an upgraded flame sensor the can operate at higher temperatures. But you don't have to take our word for it! We have included in this edition of Army Food Net a copy of the Modification Work Order issued by Soldier & Biological Chemical Command:

2. To upgrade the Modern Burner Unit V-1, NSN 7310-01-452-8137, to the capability of the MBU V-3, NSN 7310-01-507-9310, by increasing its range of heat output. The low heat output will decrease from 22,000 Btu/hr to 11,000 Btu/hr. The maximum heat output will increase from 47,000 Btu/hr to 53,500 Btu/hr. This will be accomplished by replacing the fuel delivery block. Integral with the new fuel delivery block is an upgraded flame sensor capable of operating at much higher temperatures. This will eliminate the high temperature shut down experienced by the MBU V-1.

3. This modification is classified as ROUTINE.

4. End Item(s) or system(s) to be modified.

ITEM	NSN
KCLFF	7360-01-200-9828
KCLFF-E	7360-01-374-1980
CK	7360-01-473-3408
MKT-75	7360-00-138-7782
MKT-75A	7360-01-092-0470
MKT-82	7360-01-155-6020
MKT-85	7360-01-214-1176
MKT-85S	7360-01-246-4646
MKT-90	7360-01-313-2238
MKT-95	7360-01-417-4635

MKT-99	7360-01-483-8617
MKT-99, Tan	7360-01-500-4644
MFK	7360-01-276-9817
FSC	7360-01-277-2558
FSC (2)	7360-01-496-2112

5. Module(s) (components, assemblies, subassemblies, boards, and cards) to be modified.

6. The following item(s) shall be modified

7. Modern Burner Unit (MBU: , NSN 7310-01-452-8137, CAGEC 3AD06

8. Part(s) to be modified. None.

9. Application:

a. Time Compliance Schedule. The effective date of this MWO is 12 April 2004 and completion date is 30 April 2008.

b. Level of Maintenance. All maintenance actions are to be performed by contractor at the military installation.

c. Work force and Man-Hours Requirement: Contained in contract.

d. MWO to be applied prior to or concurrently with this MW: None.

10. Technical Publication affected/changed. The following Technical Publication will implement the hardware changes. TM-10-7310-281-13&P

11. MWO kit(s)/part(s) and their disposition.

a. MWO kit(s)/part(s). The contractor is responsible for providing all related parts, materials, and consumables; therefore, no Kit NSN. Contractor shall dispose of all parts replaced.

b. Contents of Contractor MWO Kit.

i) Fuel Delivery Block, NSN 7310-01-507-9310, CAGEC 3AD06, Qty 1

ii) Decal Set, NSN N/A, CAGEC 3AD06, Qty 1

iii) Dummy connector plug, NSN N/A, CAGEC 3AD05, Qty 1

12. Special tools; tool kits' jigs' test, measurement, and diagnostic equipment (TMDE); and fixtures required. Provided by contractor, if required.

13. Modification Procedures. The contractor shall replace all mandatory parts and restore the MBU to full operational effectiveness, as described in the statement of work, using their best commercial practices.

14. Calibration. None required.

15. Weight and Balance Data. Weight and balance are not significantly affected.

16. Quality Assurance Requirements. All applicable QA provisions per contract shall apply.

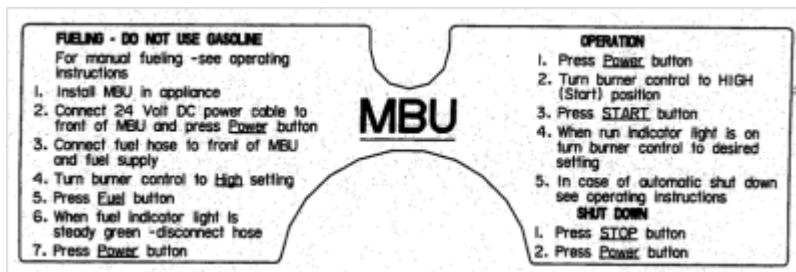
17. Recording and Reporting of the Modification.

18. Records and reports. The SBCCOM MWO Office will report application information to the Modification management Information System.

19. Materiel Change (MC) Number. This MWO is authorized by MC number 1-04-04-0005.

20. Modification Identification. The decals on the front of the MBU will be replaced with one indicating it is a V3 MBU.

21. Before MWO:



After MWO:

FUELING - DO NOT USE GASOLINE

For manual fueling - see operating instructions

1. Install MBU in appliance
2. Connect 24 Volt DC power cable to front of MBU and press **POWER** button
3. Connect fuel hose to front of MBU and fuel supply
4. Turn burner control to **HIGH(FUEL)** setting
5. Press **FUEL** button
6. When fuel indicator stops flashing - disconnect hose
7. Press **POWER** button

MBU
V3

OPERATION

1. Press **POWER** button
2. Turn burner control to **HIGH (START)** setting
3. Press **START** button
4. When run indicator lights, turn burner control to desired setting
5. In the event of an automatic shut down see Operating Instructions

SHUT DOWN

1. Press **STOP** button
2. Press **POWER** button