

ROUTINE

MWO effective date is 1 October 2010 and completion date is 30 September 2020

MWO 10-7360-211-23

MODIFICATION WORK ORDER

**MODIFICATION OF
FOOD SANITATION CENTER (FSC), MODEL FSC-90
(7360-01-277-2558) EIC: YCE**

HEADQUARTERS, DEPARTMENT OF THE ARMY, WASHINGTON, D.C.

23 September 2010

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this Modification Work Order. If you find any mistakes, or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to: Commander, TACOM Life Cycle Management Command, ATTN: AMSTA-LCL-MPP/TECH PUBS, 1 Rock Island Arsenal, Rock Island, IL 61299-7630. You may also send in your recommended changes via electronic mail or by fax. Our fax number is DSN 793-0726, and commercial number (309) 782-0726. Our e-mail address is TACOMLCMC.DAForm2028@us.army.mil. A reply will be furnished to you.

DISTRIBUTION STATEMENT A - Approved for public release; distribution is unlimited.

MWO 10-7360-211-23

1. **Purpose.** This MWO provides instructions for upgrading Food Sanitation Center Model FSC-90, NSN 7360-01-277-2558, to the configuration of Food Sanitation Center Model FSC-2, NSN 7360-01-496-2112. The upgraded configuration makes sanitation operations more efficient and safer for Food Service personnel.
2. **Priority.** This MWO is classified ROUTINE.
3. **End item(s) or system(s) to be modified.**

NOMENCLATURE	Food Sanitation Center
MODEL NUMBER	FSC-90
EIC	YCE
LIN	S33399
NSN	7360-01-277-2558
CAGEC	32682
PART NUMBER	FSC-90

4. **Module(s) (components, assemblies, subassemblies, boards, and cards) to be modified.**
Not applicable.
5. **Part(s) to be modified.** Not applicable.
6. **Application.**

6.1 Time compliance schedule: MWO effective date is 1 October 2010 and completion date is 30 September 2010.

6.2 Maintenance level. The lowest level of maintenance authorized to implement this MWO is the Crew level.

6.3 Work force and man-hour requirements.

REQUIREMENTS	
WORK FORCE/SKILLS	MAN-HOURS
2 Food Service Specialists (MOS 92G) or Nutrition Care Specialists (MOS 68M)	2.0 hours each (4.0 hours total)

7. **Technical publications affected/changed.** TM 10-7360-211-13&P, 3 August 2006, with Change 1, 15 February 2008.

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

8.1 Kit(s)/part(s) needed to apply the MWO.

NOMENCLATURE	FSC Modification Kit
CAGEC	0U5N7
PART NUMBER	48041043
DIMENSIONS	87 in L x 40 in W x 44 in H (223 cm L x 102 cm W x 112 cm H)
WEIGHT	850 lb (386 kg)
CUBE	88.6 ft ³ (2.5 m ³)
CLASSIFICATION	UNCLASSIFIED

8.2 Contents of MWO kits. See Appendix A for an illustrated list of the MWO kit components.

8.3 Bulk and expendable material. Not applicable.

8.4 Parts disposition. All items deleted or replaced by this MWO shall be turned in accordance with DA PAM 710-2-1, Using Unit Supply System (Manual Procedures) and DA PAM 710-2, Supply Policy Below the National Level.

8.5 Mandatory replacement parts. Not applicable.

9. Special tools; tool kits; jigs; test, measurement, and diagnostic equipment (TMDE); and fixtures required. No special tools are required to implement this MWO. Common hand tools (hammer, pry bar, etc.) are needed to open the shipping crate containing the modification kit.

10. Modification procedures. No operational checks of the FSC-90 are required before implementing this MWO. The modification is accomplished by replacing selected FSC-90 components with FSC-2 components, adding new components that are not part of the FSC-90, and deleting FSC-90 components that are not part of the FSC-2. The components listed in Table 1 are common to both the FSC-90 and FSC-2 configurations and will be retained.

NOTE

The FSC-90 will have either one (1) shelf with the old style folding table legs or two (2) new style folding table legs.

Table 1. FSC-90 Components to be Retained.

NOMENCLATURE	NSN	QTY
Bracket, Thermometer	5340-01-333-8483	3
Cable A, 24 Volt DC Long (25 ft)	7310-01-455-0665	1
Cable D, 2 Branch	7310-01-455-1017	2
Converter, Power	7310-01-502-9455 or 7310-01-453-6513	1
Cover, Sink	5340-01-333-8485	3
Fuel Line (20 ft)	7310-01-455-3735	1
Light, Extension	6230-01-485-6376	2
Modern Burner Unit	7310-01-452-8137	3
Rack Assembly, Storage/Drying	7125-01-334-3159	6
Rack, Base	7360-01-250-3652	3
Rack, Burner	7360-01-250-3649	3
Rack, Sink, Immersion	7320-01-334-3160	2
Shelf, Table, Folding Leg	7125-01-333-8486	1
Table Assembly, Drain	7105-01-333-8492	1
Table Assembly, Folding Legs	7105-01-333-8493	1
Tent, Extendable, Modular, Personnel or Tent, System, Modular, General Purpose (MGPTS)	8340-01-185-2613 or 8340-01-456-3633	1
Thermometer	6685-00-444-6500	3
Waste Receptacle (with Lid)	7240-01-151-6629	2
Adapter, Fuel Can	7310-01-455-3756	2
Extinguisher, Fire	4210-01-149-1356	1

WARNING

Each sink body assembly weighs approximately 60 lbs (27.22 kg) without accessories. The grease separator weighs approximately 80 lbs (36.3 kg). Two persons must lift or carry each of these items, lifting with their legs not their back, to prevent injury. The use of work gloves with gripping pads, when moving equipment will significantly reduce the risk of injuries/cuts. Failure to observe this warning may result in serious personal injury.

1. Locate the FSC-90 components listed and illustrated below and set them aside for disposition per paragraph 8.4.

NOTE

If your FSC-90 is configured with a TEMPER tent, you will need to keep the 50-ft extension cord, Item 7.

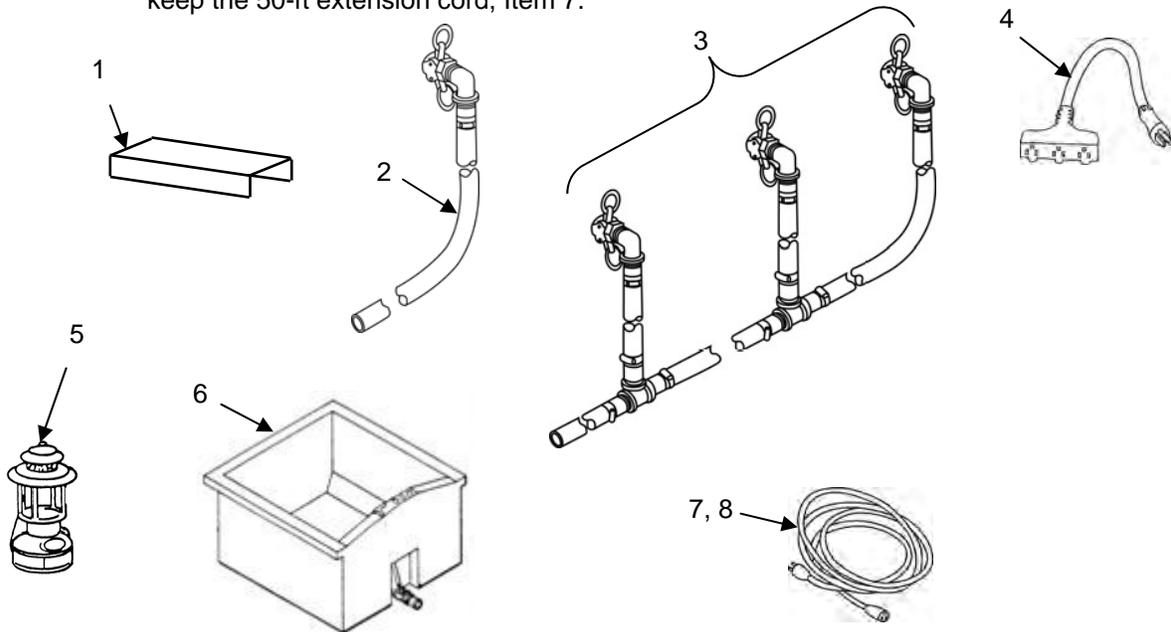
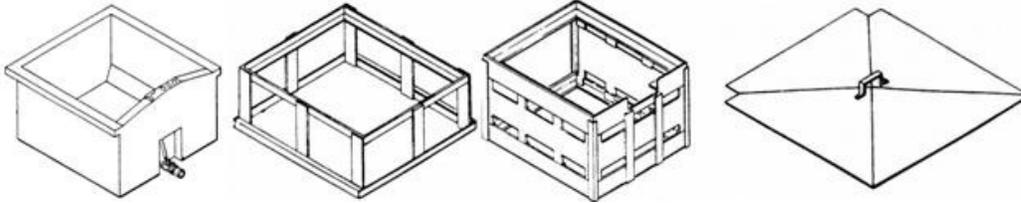


Table 2. FSC-90 Components to Set Aside for Disposition.

ITEM	NOMENCLATURE	NSN	QTY
1	Adapter, Sink	7320-01-333-9188	2
2	Drain Hose, Single Sink	4720-01-333-8488	1
3	Drain Hose, Three Sink	4720-01-333-8489	1
4	Cable Assembly, Power	6150-01-507-8466	1
5	Lantern, Gasoline (if present)	6260-00-837-0996	2
6	Sink Body Assembly	7320-01-333-9186	3
7	Extension Cord, MBU (50-ft) (see NOTE above)	7310-01-454-1281	1
8	Extension Cord, Short	7310-01-458-5060	1

NOTE

The FSC-90 sink assembly consists of the four items shown below: sink body assembly, base rack, burner rack, and cover. Locate and set aside ONLY the three sink body assemblies. The base racks, burner racks, and covers will be retained.



Sink Body Assembly

Base Rack

Burner Rack

Cover

CAUTION

Do not use knives or sharp blades to open packaging of chemical gloves. There is no covering inside of the packaging to protect the gloves from being damaged.

NOTE

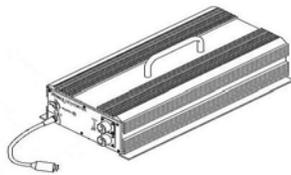
Items 24, 25, and 26 are sent together in one package. When Item 26 is ordered, they come as individual items.

2. Unpack the modification kit.
3. Using the illustrated list in Appendix A-2, identify and inventory the kit components and inspect them for damage. Notify your supervisor if any items are missing or damaged.

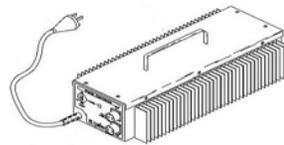
NOTE

The modification kit includes two MBU power converter hanger brackets (Appendix A-2, Items 19 and 20) that are different sizes. You will need to identify which style of power converter you have in order to select the right bracket. You may keep the other bracket as a spare.

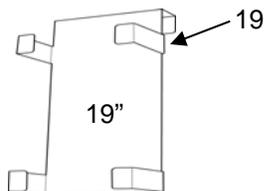
4. Locate the power converter. Using the illustrations below, identify whether it is the new style or the old style converter. If it is a new style converter, you will use the small bracket (Appendix A-2, Item 19). If it is an old style converter, you will use the large bracket (Appendix A-2, Item 20).



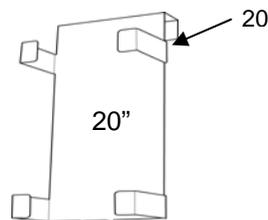
New Style Converter



Old Style Converter



New Style Converter Bracket



Old Style Converter Bracket

NOTE

If you already have two lights, you may keep them as spares.

5. Place the kit components listed in Appendix A with the retained components of the original FSC-90 listed in Table 1, which are also common to the FSC-2. This completes the MWO. Your system is now configured as an FSC-2, NSN 7360-07-496-2112.
6. Report and record the modification per paragraph 14.

11. Calibration requirements. Not applicable.

12. Weight and balance data. Not applicable.

13. Quality assurance requirements. Inspection of completed MWO application for compliance with procedures of paragraph 10 will be made by qualified personnel.

14. Recording and reporting of the modification.

14.1 Records and reports. The organization that actually applies the MWO (contractor, field, or sustainment organization) is responsible for reporting its application:

- 1) Reporting will be accomplished by electronic means. MWO application information can be input directly into the Modification Management Information System (MMIS) over the Internet or via e-mail submission to the MMIS administrator. Entry into the MMIS system is password protected. New users can register online at <https://www.mmis.army.mil>. Passwords are normally approved and issued within 48 hours.
- 2) Submission will consist of the nine (9) data elements listed in the table below. Elements 1, 2, 4, 8, and 9 are given for this MWO (as shown). The person reporting the MWO data will acquire the remaining elements and input all nine into MMIS.

Table 3. Records and Reports.

DATA ELEMENT	INPUT DATA
1. Materiel Change Number (MCN)	1-09-08-0002
2. MWO Number	10-7360-211-23
3. Unit Identification Code (UIC) at Battalion Level	
4. NSN of End Item	7360-01-277-2558
5. Serial Number	4510-01-541-4791
6. USA Registration	
7. Date of Application	
8. Hours Required for Application	6.0
9. Software Version	NA

14.2 Marking of equipment. Not applicable.

14.3 Identification data.

Table 4. Identification Data.

DATA ITEM	BEFORE MODIFICATION	AFTER MODIFICATION
Nomenclature	Food Sanitation Center	Food Sanitation Center
LIN	S33399	S33399
End Item Code (EIC)	YCE	YCE
Model No.	FSC-90	FSC-2
CAGEC/Part No.	(32682) FSC-90	(0U5N7) 48010000
NSN	7360-01-277-2558	7360-01-496-2112

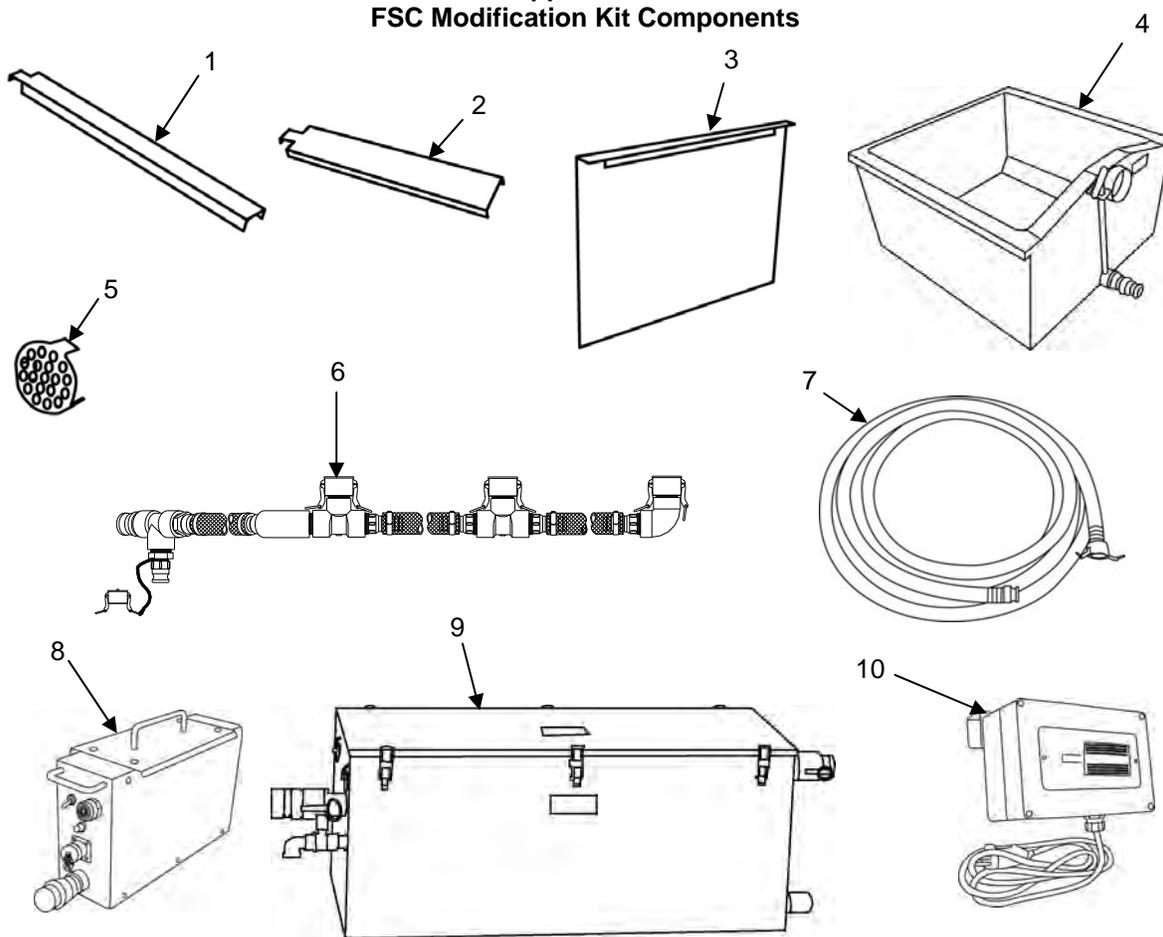
15. Materiel Change Number (MCN). This MWO is authorized by Materiel Change Number (MCN): 1-09-08-0002.

16. Modification Identification.

Table 5. Major Differences between FSC-90 and FSC-2.

FEATURE	FSC-90	FSC-2
CO Monitor	N/A	CO monitor
Grease Separator	N/A	Grease separator with 50-ft drain hose
Sink Fill Pump Assembly	N/A	Sink fill pump assembly
Step Ladder	N/A	One 6-ft step ladder

**Appendix A
FSC Modification Kit Components**



CAUTION

Do not use knives or sharp blades to open packaging of chemical gloves. There is no covering inside of the packaging to protect gloves in kit from being damaged.

Table A-1. FSC Modification Kit Components.

ITEM	NSN	NOMENCLATURE	QTY
1	5340-01-541-1917	HEAT SHIELD ASSEMBLY, SINK EDGE	1
2	5340-01-541-4998	HEAT SHIELD ASSEMBLY, SINK COUPLER	2
3	5340-01-541-4996	HEAT SHIELD ASSEMBLY, SINK FRONT	3
4	7320-01-333-9186	BODY, SINK	3
5	4510-01-541-0667	STRAINER	3
6	4720-01-541-0740	HOSE ASSEMBLY, DRAIN	1
7	4720-01-541-0370	HOSE, GREASE SEPARATOR DRAIN (50 FT)	1
8	4320-01-541-0669	FILL PUMP ASSEMBLY	1
9	4510-01-541-2489	GREASE SEPARATOR ASSEMBLY	1
10	6665-01-541-2811	CO MONITOR ASSEMBLY	1

Appendix A – Continued.

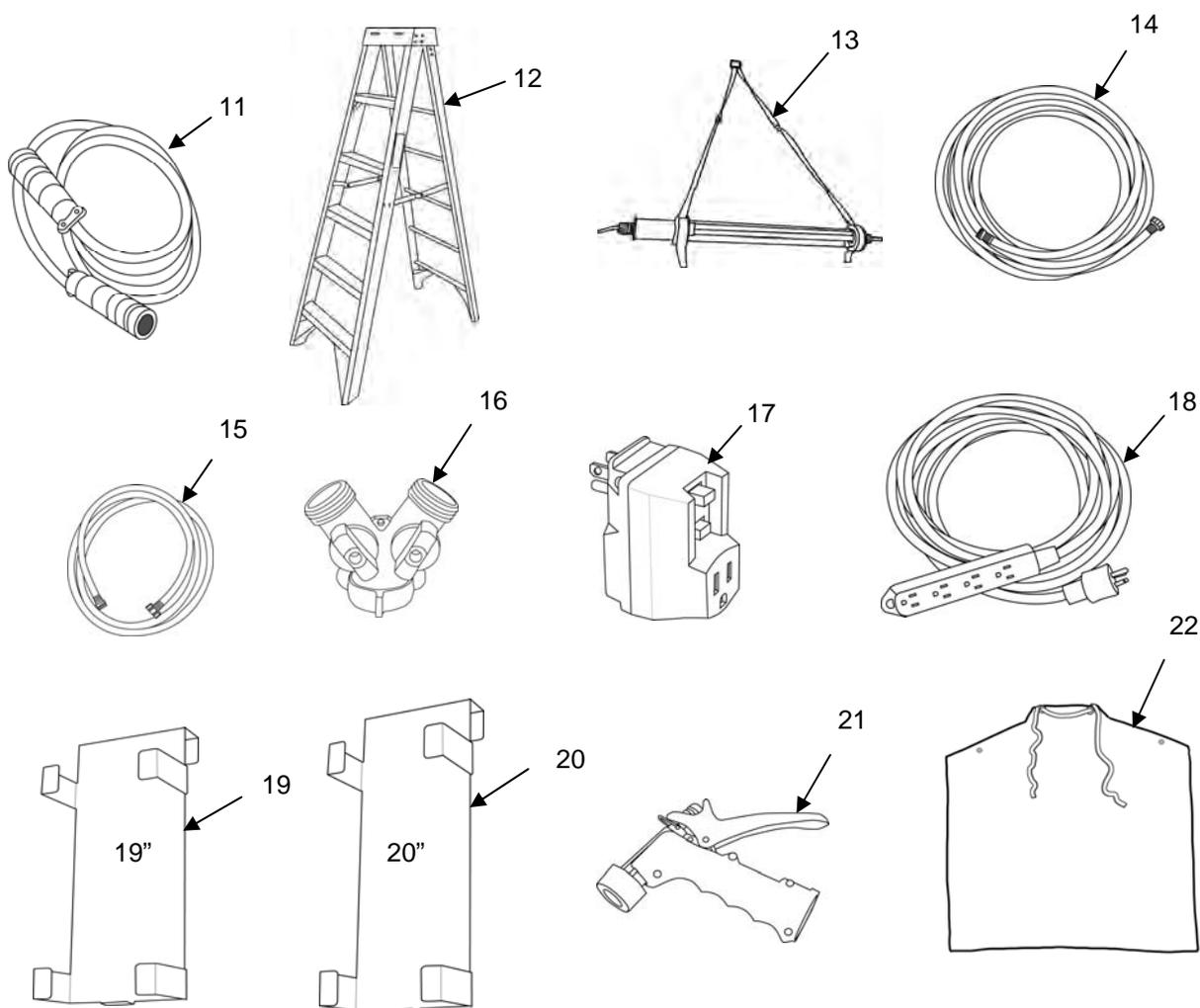
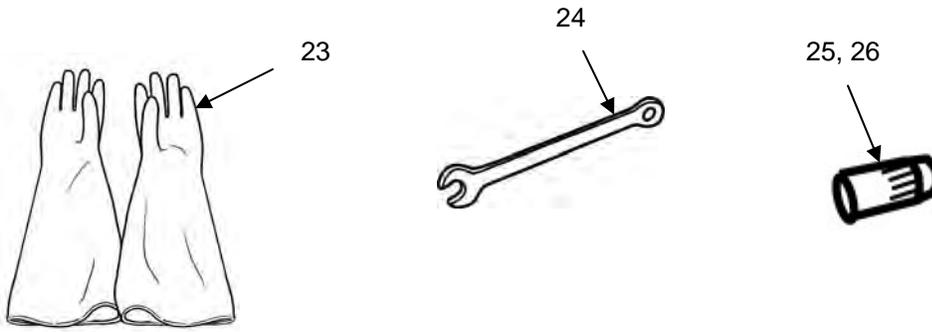


Table A-1. FSC Modification Kit Components – Continued.

ITEM	NSN	NOMENCLATURE	QTY
11	6150-01-541-3307	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL	1
12	5440-00-061-8900	LADDER, STEP (6 FOOT)	1
13	6230-01-485-6376	LIGHT, EXTENSION	2
14	4720-01-541-0644	HOSE, FRESH WATER (50 FOOT)	1
15	4720-01-541-0750	HOSE, FRESH WATER (15 FOOT)	1
16	4510-01-541-0653	Y-ADAPTER	1
17	5935-01-541-1208	GROUND FAULT CIRCUIT INTERRUPTER	1
18	6150-01-541-4236	EXTENSION CORD, FOUR OUTLET, 15A/125V (100 FOOT)	1
19	5340-01-541-0337	BRACKET, CONVERTER, POWER (19 INCHES)	1
20		BRACKET, CONVERTER, POWER (20 INCHES)	1
21	4730-01-466-9556	NOZZLE, WATER	1
22	8415-00-634-5023	APRON, UTILITY	4

Appendix A – Continued.



NOTE

Items 24, 25, and 26 are sent together in one package. When item 26 is ordered, they come as individual items.

Table A-1. FSC Modification Kit Components – Continued.

ITEM	NSN	NOMENCLATURE	QTY
23	8415-01-511-4637	GLOVES, CHEMICAL AND OIL PROTECTION (PAIR)	4
24	5120-01-431-4013	WRENCH, BOX AND OPEN END, COMBINATION	1
25	5940-01-541-4174	WIRENUT, WATERTIGHT (PACKAGE OF 10)	1
26	5940-01-541-3276	WIRENUT, WATERTIGHT (PACKAGE OF 20)	1

END OF MODIFICATION WORK ORDER

These are the instructions for sending an electronic 2028

The following format must be used if submitting an electronic 2028. The subject line must be exactly the same and all fields must be included; however only the following fields are mandatory: 1, 3, 4, 5, 6, 7, 8, 9, 10, 13, 15, 16, 17, and 27.

From: "Whomever" <whomever@avma27.army.mil>

To: TACOMLCMC.DAForm2028@us.army.mil

Subject: DA Form 2028

1. From: Joe Smith
2. Unit: home
3. Address: 4300 Park
4. City: Hometown
5. St: MO
6. Zip: 77777
7. Date Sent: 19-OCT-93
8. Pub no: 55-2840-229-23
9. Pub Title: TM
10. Publication Date: 04-JUL-85
11. Change Number: 7
12. Submitter Rank: MSG
13. Submitter FName: Joe
14. Submitter MName: T
15. Submitter LName: Smith
16. Submitter Phone: 123-123-1234
17. Problem: 1
18. Page: 2
19. Paragraph: 3
20. Line: 4
21. NSN: 5
22. Reference: 6
23. Figure: 7
24. Table: 8
25. Item: 9
26. Total: 123
27. Text:

This is the text for the problem below line 27.

RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS For use of this form, see AR 25-30; the proponent agency is ODISC4.						Use Part II (reverse) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).	DATE 21 October 2003
TO: (Forward to proponent of publication or form) (Include ZIP Code) US ARMY TACOM LIFE CYCLE MANAGEMENT COMMAND ATTN: AMSTA-LCL-MPP/TECHPUBS 1 Rock Island Arsenal ROCK ISLAND, IL 61299-7360						FROM: (Activity and location) (Include ZIP Code) <i>PFC JANE DOE</i> Co A 3 RD Engineer Br. Ft Leonard Wood, MO 63108	
PART I – ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS							
PUBLICATION/FORM NUMBER TM 10-1670-296-23&P				DATE 30 October 2002	TITLE Unit Manual for Ancillary Equipment for Low Velocity Air Drop Systems		
ITEM NO.	PAGE NO.	PARA-GRAPH	LINE NO. *	FIGURE NO.	TABLE NO.	RECOMMENDED CHANGES AND REASON (Provide exact wording of recommended changes, if possible).	
	0036 00-2				1	<p><i>In Table 1, Sewing Machine Code Symbols, the second sewing machine code symbol should be MDZZ not MD22</i></p> <p><i>Change the manual to show Sewing Machine, Industrial: Zig-Zag; 308 stitch; medium-duty; NSN 3530-01-181-1421 as a MDZZ code symbol.</i></p>	
<i>*Reference to line numbers within the paragraph or subparagraph.</i>							
TYPED NAME, GRADE OR TITLE Jane Doe, PFC				TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION (508) 233-4141 DSN 256-4141		SIGNATURE Jane Doe <i>Jane Doe</i>	

TO: <i>(Forward direct to addressee listed in publication)</i> US ARMY TACOM LIFE CYCLE MANAGEMENT COMMAND ATTN: AMSTA-LCL-MPP/TECHPUBS 1 Rock Island Arsenal ROCK ISLAND, IL 61299-7360	FROM: <i>(Activity and location) (Include ZIP Code)</i> PFC JANE DOE Co A 3 RD Engineer Br. Ft Leonard Wood, MO 63108	DATE 21 October 2003
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PART II – REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS

PUBLICATION NUMBER TM 10-1670-296-23&P	DATE 30 October 2002	TITLE Unit Manual for Ancillary Equipment for Low Velocity Air Drop Systems
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PAGE NO.	COLM NO.	LINE NO.	NATIONAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION
0066 00-					4			<i>Callout 16 in figure 4 is pointed to a <u>D-Ring</u>. In the Repair Part List key for Figure 4, item 16 is called a <u>Snap Hook</u>. Please correct one or the other.</i>

PART III – REMARKS *(Any general remarks or recommendations, or suggestions for improvement of publications and blank forms. Additional blank sheets may be used if more space is needed.)*

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TYPED NAME, GRADE OR TITLE	TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION	SIGNATURE
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TO: <i>(Forward to proponent of publication or form) (Include ZIP Code)</i> US ARMY TACOM LIFE CYCLE MANAGEMENT COMMAND ATTN: AMSTA-LCL-MPP/TECHPUBS 1 Rock Island Arsenal ROCK ISLAND, IL 61299-7360	FROM: <i>(Activity and location) (Include ZIP Code)</i>	DATE
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PART II – REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS

PUBLICATION NUMBER MWO 10-7360-211-23	DATE 23 September 2010	TITLE Modification of Food Sanitation Center (FSC), Model FSC-90
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PAGE NO.	COLM NO.	LINE NO.	NATIONAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION

PART III – REMARKS *(Any general remarks or recommendations, or suggestions for improvement of publications and blank forms. Additional blank sheets may be used if more space is needed.)*

TYPED NAME, GRADE OR TITLE	TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION	SIGNATURE
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TO: (Forward to proponent of publication or form) (Include ZIP Code) US ARMY TACOM LIFE CYCLE MANAGEMENT COMMAND ATTN: AMSTA-LCL-MPP/TECHPUBS 1 Rock Island Arsenal ROCK ISLAND, IL 61299-7360	FROM: (Activity and location) (Include ZIP Code)	DATE
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PART II – REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS

PUBLICATION NUMBER MWO 10-7360-211-23	DATE 23 September 2010	TITLE Modification of Food Sanitation Center (FSC), Model FSC-90
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PAGE NO.	COLM NO.	LINE NO.	NATIONAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION

PART III – REMARKS (Any general remarks or recommendations, or suggestions for improvement of publications and blank forms. Additional blank sheets may be used if more space is needed.)

TYPED NAME, GRADE OR TITLE	TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION	SIGNATURE
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TO: (Forward to proponent of publication or form) (Include ZIP Code) US ARMY TACOM LIFE CYCLE MANAGEMENT COMMAND ATTN: AMSTA-LCL-MPP/TECHPUBS 1 Rock Island Arsenal ROCK ISLAND, IL 61299-7360	FROM: (Activity and location) (Include ZIP Code)	DATE
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PART II – REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS

PUBLICATION NUMBER MWO 10-7360-211-23	DATE 23 September 2010	TITLE Modification of Food Sanitation Center (FSC), Model FSC-90
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PAGE NO.	COLM NO.	LINE NO.	NATIONAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION

PART III – REMARKS (Any general remarks or recommendations, or suggestions for improvement of publications and blank forms. Additional blank sheets may be used if more space is needed.)

TYPED NAME, GRADE OR TITLE	TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION	SIGNATURE
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By Order of the Secretary of the Army:

GEORGE W. CASEY, JR.
General, United States Army
Chief of Staff

Official:



JOYCE E. MORROW
Administrative Assistant to the
Secretary of the Army
1025912

DISTRIBUTION:

To be distributed in accordance with initial distribution number (IDN) 257843 requirements for MWO 10-7360-211-23.

The Metric System and Equivalents

Linear Measure

1 centimeter = 10 millimeters = .39 inch
 1 decimeter = 10 centimeters = 3.94 inches
 1 meter = 10 decimeters = 39.37 inches
 1 dekameter = 10 meters = 32.8 feet
 1 hectometer = 10 dekameters = 328.08 feet
 1 kilometer = 10 hectometers = 3,280.8 feet

Weights

1 centigram = 10 milligrams = .15 grain
 1 decigram = 10 centigrams = 1.54 grains
 1 gram = 10 decigrams = .035 ounce
 1 dekagram = 10 grams = .35 ounce
 1 hectogram = 10 dekagrams = 3.52 ounces
 1 kilogram = 10 hectograms = 2.2 pounds
 1 quintal = 100 kilograms = 220.46 pounds
 1 metric ton = 10 quintals = 1.1 short tons

Liquid Measure

1 centiliter = 10 milliliters = .34 fl. ounce
 1 deciliter = 10 centiliters = 3.38 fl. ounces
 1 liter = 10 deciliters = 33.81 fl. ounces
 1 dekaliter = 10 liters = 2.64 gallons
 1 hectoliter = 10 dekaliters = 26.42 gallons
 1 kiloliter = 10 hectoliters = 264.18 gallons

Square Measure

1 sq. centimeter = 100 sq. millimeters = .155 sq. inch
 1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches
 1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet
 1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet
 1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47 acres
 1 sq. kilometer = 100 sq. hectometers = .386 sq. mile

Cubic Measure

1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch
 1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches
 1 cu. meter = 1000 cu. decimeters = 35.31 feet

Approximate Conversion Factors

<i>To change</i>	<i>To</i>	<i>Multiply by</i>	<i>To change</i>	<i>To</i>	<i>Multiply by</i>
inches	centimeters	2.540	ounce-inches	newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29.573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	newton-meters	1.356	metric tons	short tons	1.102
pound-inches	newton-meters	.11296			

Temperature (Exact)

 _F Fahrenheit temperature $\frac{5}{9}$ (after subtracting 32) Celsius temperature _C

PIN: 086601-000