

EXECUTIVE SUMMARY

TACOM-Rock Island proposes to procure 308 each Converter Assemblies, NSN: 1240-01-217-2334, P/N: 12325150.

The solicitation is for a Five (5) Year Indefinite-Delivery Indefinite-Quantity (IDIQ) Contract. Under an IDIQ contract arrangement, the Government guarantees to buy a specified minimum quantity of contract items at time of contract award.

This is a Best Value procurement. Award will be based on an evaluation of proposals in three areas: (1) Price, (2) Financial Capability, and (3) Past Performance. The area of Past Performance is more important than the area of Financial Capability which is more important than Price. See Sections L and M of the solicitation along with supplemental information provided as attachments 07 and 08. These documents outline what is required from offerors and provides an explanation of the rationale and criteria to be used in determining the successful contractor under this action. Failure to provide the required supporting documentation may result in your offer being rejected.

This procurement is restricted to small businesses (Small Business Set Aside).

This executive summary is provided solely as an administrative convenience and is not intended to alter in any way the terms and conditions of the attached Request for Proposal (RFP). Any inconsistency between the summary and the elements of the RFP it addresses shall be resolved in favor of the RFP elements in accordance with the order of precedence clause contained in the RFP.

Attachment 02

NSN 1240012172334 NOMENCLATURE CONVERTER ASSY

ENGINEERING EXCEPTIONS: The following engineering changes apply to this procurement action(s):

DOCUMENT	ADD
MIL-I-43553	REPLACED BY A-A-56032
MIL-STD-454	REPLACED BY MIL-HDBK-454
DOD-STD-100	REPLACED BY MIL-STD-100
MIL-STD-105	REPLACED BY MIL-STD-1916
MIL-P-14232	REPLACED BY MIL-STD-2073-1
ASTM-A581	REPLACED BY ASTM-A581
ASTM-A582	REPLACED BY ASTM-A582
QQ-A-250/11	REPLACED BY ASTM-B209
J-W-1177/14	USE NEMA MW-1000,MW-35
MIL-G-45204	USE AMS 2422 AND/OR ASTM B488
MIL-STD-2000	USE BEST COMMERCIAL PRACTICE
MIL-STD-45662	USE ISO 10012-1,ANSI/NCSL Z540-1
MIL-T-10727	USE ASTM B545 , ASTM B339
QQ-A-200	USE SAE AMS-QQ-A-200,ASTM B221,ASTM B308
QQ-A-591	USE ASTM B85,B26,B108,AMS 4290,4291,SAE J452,J453
QQ-P-35	USE ASTM A967,SAE AMS-QQ-P-35
QQ-S-766	USE ASTM A240,ASTM A666,ASTM A693

All soldering and soldering related operations shall be performed in accordance with a detailed soldering process plan to be developed and maintained by the contractor. The plan shall include the procedures to be used for all soldering and soldering related operations (i.e. hand soldering, tinning, solderability testing or verification, automated soldering, inspection, process controls). Each procedure shall describe the operation in sufficient detail to ensure that the performance requirements for the item being manufactured are met. As a minimum, each procedure shall include the process, tools, equipment, materials and acceptance criteria used for the operation. The soldering process plan shall be made available to the cognizant government technical agency.

In lieu of developing a soldering process plan, the contractor may elect to utilize ANSI/IPC/J-STD-001, Class 3*, with the cleanliness designator as indicated below:

Flux Type in use	Cleanliness Designator**
Low Residue/No Clean Flux	C02
Rosin Based Flux	C22
Water Soluble Flux	C22

*Class 3 High Performance Electronic Products

Includes equipment for commercial and military products where continued performance or performance-on-demand is critical. Equipment downtime cannot be tolerated, end-item use may be uncommonly harsh, and the equipment must function when required, such as life support systems and critical weapons systems.

**ANSI/IPC/J-STD-001 Rev A, paragraph 8.3.2 and sub-paragraphs.

Packaging shall be in accordance with Method 41 of MIL-STD-2073-1c unless otherwise specified in the contract or purchase order. (Detailed SPI may apply.)

ENGINEERING CHANGE PROPOSAL (ECP), PAGE 1 OF 31				1. DATE (YYMMDD) 000110		Form Approved OMB No. 0704-0188		
Public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of collection of information, including suggestions for reducing this burden to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503						2. PROCURING ACTIVITY NO. HOT2001		
PLEASE DO NOT RETURN YOUR COMPLETED FORM TO EITHER OF THESE ADDRESSES. RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THIS CONTRACT. PROCURING ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.						3. DODAAC		
4. ORIGINATOR a. TYPED NAME (FIRST, MIDDLE INITIAL, LAST) LEON OSTOPOWICZ			b. ADDRESS (STREET, CITY STATE, ZIP CODE) U.S. ARMY, ARDEC AMSTA-AR-FSF-DT PICATINNY ARSENAL, NJ 07806-5000			5. CLASS OF ECP. I		
8. ECP DESIGNATION a. MODEL/TYPE CPCU			b. CAGE CODE 19200			c. SYSTEM DESIGNATION M1 ABRAMS TANK/M2,M3 BFVS		
d. ECP NO. HOT2001			e. TYPE F		f. REV		9. BASELINE AFFECTED FUNCTIONAL <input checked="" type="checkbox"/> PRODUCT ALLOCATED	
11. SPECIFICATIONS AFFECTED			12. DRAWINGS AFFECTED					
a. SYSTEM			CAGE Code			Specification / Document No.		
b. DEVELOPMENT			Rev			SCN		
c. PRODUCT			CAGE Code			Number		
			SEE ENCLOSURE 1			Rev		
			(ECP PAGE 2)			Nor		
13. TITLE OF CHANGE REPLACEMENT OF CANCELLED MILITARY SPECIFICATIONS CALLED OUT ON DETAILED DRAWINGS								
14. CONTRACT NO. AND LINE ITEM			15. PROCURING CONTRACTING OFFICER					
			a. NAME (FIRST, MIDDLE INITIAL, LAST)					
			b. CODE			c. TELEPHONE NO.		
16. CONFIGURATION ITEM NOMENCLATURE CPCU-12272555: M1 TANK/M2, M3 BFVS						17. IN PRODUCTION YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
18. ALL LOWER LEVEL ITEMS AFFECTED								
a. NOMENCLATURE SEE ENCLOSURE 1 (ECP PAGE 2)			b. PART NO.			c. NSN		
19. DESCRIPTION OF CHANGE REPLACEMENT OF CANCELLED MILITARY SPECIFICATION WITH INDUSTRIAL SPECIFICATION								
20. NEED FOR CHANGE IMPROVE PROCUREMENT OF MILITARY COMPONENTS BY CALLING OUT THE ACTIVE SPECIFICATION, BOTH MILITARY AND INDUSTRIAL, ON DETAIL DRAWINGS OF THE ASSEMBLY AS WELL AS THE ASSEMBLY ITSELF. REF: PRON P49ANAX4								
21. PRODUCTION EFFECTIVITY BY SERIAL NUMBER				22. EFFECT ON PRODUCTION DELIVERY SCHEDULE				
23. RETROFIT								
a. RECOMMENDED ITEM EFFECTIVITY N/A				b. SHIP / VEHICLE CLASS AFFECTED N/A				
c. ESTIMATED KIT DELIVERY SCHEDULE N/A				d. LOCATIONS OR SHIP / VEHICLE NUMBERS AFFECTED N/A				
24. ESTIMATED COSTS / SAVINGS UNDER CONTRACT NONE				25. ESTIMATED NET TOTAL COSTS / SAVINGS NONE				
26. SUBMITTING ACTIVITY a. AUTHORIZED SIGNATURE <i>Carl F. Sells</i>				b. TITLE M1 / M60 / BFVS CMO				
27. APPROVAL / DISAPPROVAL								
a. CLASS I APPROVAL RECOMMENDED <input type="checkbox"/> DISAPPROVAL RECOMMENDED <input type="checkbox"/>			b. CLASS II APPROVED <input type="checkbox"/> DISAPPROVED <input type="checkbox"/>			c. CLASS III CONCUR IN CLASSIFICATION OF CHANGE <input type="checkbox"/> DO NOT CONCUR IN CLASSIFICATION OF CHANGE <input type="checkbox"/>		
d. GOVERNMENT ACTIVITY			e. SIGNATURE <i>Kenneth Kempf</i>			f. DATE SIGNED (YYMMDD)		
g. APPROVAL <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> DISAPPROVED			h. GOVERNMENT ACTIVITY 19. ARDEC, AMSTA-AR-ESM			i. SIGNATURE <i>for ARTHUR J. HEYCFERMAN</i> Chief Arly Sys & Armor Div.		
						j. DATE SIGNED (YYMMDD) 000223		

ENCLOSURE LIST/SUPPLEMENTAL INFORMATION SHEET

A. THIS ECP INCLUDES THE FOLLOWING NOR:

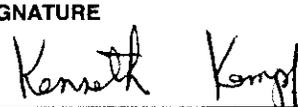
<u>TITLE</u>	<u>NOR SHTS FOR DWGS</u>	<u>RN</u>	<u>ECP PAGES</u>
JACK SCREW, MALE	D 12271617	F	3 OF 31
JACK SCREW, FEMALE	D 12271716	F	4 OF 31
CAP, CAPTIVE JACK SCREW	D 12271921	F	5 OF 31
INSULATOR	D 12272101	C	6 OF 31
TERMINAL STUD	D 12272102	D	7 OF 31
SCREW ASSEMBLY	D 12272228	D	8 OF 31
FORMED HARNESS ASSY.	E 12272269	J	9,10 OF 31
CONVERTER ASSY	E 12272582	G	11,12 OF 31
CHASSIS CONVERTER	E 12272583	H	13,14,15,16 OF 31
PRINTED WIRING BOARD ASSY	E 12272584	F	17,18 OF 31
SCREW-MODULE INSTALLATION	D 12272598	C	19 OF 31
CONTACT, ELECTRICAL CONNECTOR	C 12325121	C	20 OF 31
CONVERTER ASSEMBLY	E 12325150	D	21 OF 31
CHASSIS CONVERTER	E 12325152	D	22 OF 31
PWB ASSY. CONVERTER	E 12325153	H	23,24,25, OF 31
PWB ASSY. CONVERTER	E 12325154	E	26 OF 31
FORMED HARNESS ASSY. CONVERTER	E 12325155	D	27,28 OF 31
CONTACT, ELECTRIC	E 12325156	C	29 OF 31
TRANSISTOR, POWER MOSFET,N-CHAN.	D 12325157	E	30 OF 31
BRIDGE DIODE	D 12325193	F	31 OF 31

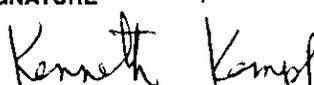
NOTICE OF REVISION (NOR) THIS REVISION DESCRIBED BELOW HAS BEEN AUTHORIZED FOR THE DOCUMENT LISTED.		1. DATE (YYMMDD) 000110	Form Approved OMB No. 0704-0188
Public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of collection of information, including suggestions for reducing this burden to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503 PLEASE DO NOT RETURN YOUR COMPLETED FORM TO EITHER OF THESE ADDRESSES. RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THIS CONTRACT/PROCURING ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.		2. PROCURING ACTIVITY NO. HOT2001	3. DODAAC
4. ORIGINATOR a. TYPED NAME (First, Middle Initial, Last) LEON OSTOPOWICZ	b. ADDRESS (Street, State, Zip Code) U.S. ARMY, TACOM-ARDEC AMSTA-AR-FSF-DT Picatinny Arsenal, NJ 07806-5000	5. CAGE CODE 19200	6. NOR NO.
		7. CAGE CODE 19200	8. DOCUMENT NO. D 12271617
9. TITLE OF DOCUMENT JACK SCREW, MALE	10. REVISION LETTER a. CURRENT F		b. NEW
			11. ECP NO. HOT2001
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES CPCU-12272555-M1TANK/M2, M3 BFVS		NOR SHT 1 OF 1	ECP PAGE 3 OF 31
13. DESCRIPTION OF REVISION CHANGE: NOTES, ZONE B8: FROM: 4. "PASSIVATE PER QQ-P-35, TYPE IV." TO: 4. "PASSIVATE PER ASTM A967, NITRIC 2."			
14. THIS SECTION FOR GOVERNMENT USE ONLY			
a. (X one)	(1) Existing document supplemented by this NOR may be used in manufacture. (2) Revised document must be received before manufacturer may incorporate this change. (3) Custodian of master document shall make above revision and furnish revised document.		
b. ACTIVITY AUTHORIZED TO APPROVED CHANGE FOR GOVERNMENT	c. TYPED NAME (First, Middle Initial, Last) HQ, ARDEC, AMSTA AR-DEC for Chief, Arty Sys & Armor Div.		
d. TITLE	e. SIGNATURE Kenneth Kempf	f. DATE SIGNED (YYMMDD) 000223	
15.a. ACTIVITY ACCOMPLISHING REVISION	b. REVISION COMPLETED (Signature)	c. DATE SIGNED (YYMMDD)	

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		7. CAGE CODE 19200	8. DOCUMENT NO. D 12271716
9. TITLE OF DOCUMENT JACK SCREW, FEMALE	10. REVISION LETTER a. CURRENT F		b. NEW
			11. ECP NO. HOT2001
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES CPCU-12272555: M1 TANK/M2, M3 BFVS		NOR SHT 1 OF 1	ECP PAGE 4 OF 31
13. DESCRIPTION OF REVISION CHANGE: NOTES, ZONE B8: FROM: 4. "PASSIVATE PER QQ-P-35, TYPE IV." TO: 4. "PASSIVATE PER ASTM A967, NITRIC 2."			
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d. TITLE	e. SIGNATURE Kenneth Kempf	f. DATE SIGNED (YYMMDD) 000223	
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		7. CAGE CODE 19200	8. DOCUMENT NO. D 12271921
9. TITLE OF DOCUMENT CAP, CAPTIVE JACK SCREW	10. REVISION LETTER a. CURRENT F		b. NEW
			11. ECP NO. HOT2001
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES CPCU-12272555: M1 TANK/M2, M3 BFVS		NOR SHT 1 OF 1	ECP PAGE 5 OF 31
13. DESCRIPTION OF REVISION CHANGE: NOTES, ZONE B8: FROM: 5. "PASSIVATE PER QQ-P-35, TYPE IV." TO: 5. "PASSIVATE PER ASTM A967, NITRIC 2."			
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b. ACTIVITY AUTHORIZED TO APPROVED CHANGE FOR GOVERNMENT HQ, ARDEC, AMSTA-AR-LSM	c. TYPED NAME (First, Middle Initial, Last) ARTHUR J. HEYDERMAN <i>for</i> Chief, Arty Sys & Armor Div		
d. TITLE	e. SIGNATURE <i>Kessath Kempf</i>	f. DATE SIGNED (YYMMDD) 000223	
15.a. ACTIVITY ACCOMPLISHING REVISION	b. REVISION COMPLETED (Signature)	c. DATE SIGNED (YYMMDD)	

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		7. CAGE CODE 19200	8. DOCUMENT NO. D 12272101
9. TITLE OF DOCUMENT INSULATOR	10. REVISION LETTER a. CURRENT C	b. NEW	11. ECP NO. HOT2001
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES CPCU-12272555: M1 TANK/M2, M3 BFVS	NOR SHT 1 OF 1	ECP PAGE 6 OF 31	
13. DESCRIPTION OF REVISION CHANGE: NOTE 3, ZONE C7: FROM: 3. "MATERIAL: POLYETRAFLUROETHLENE (TEFLON) PER MIL-P-19468." TO: 3. "MATERIAL: POLYETRAFLUROETHLENE (TEFLON) PER ASTM D1710."			
14. THIS SECTION FOR GOVERNMENT USE ONLY			
a. (X one)	(1) Existing document supplemented by this NOR may be used in manufacture. (2) Revised document must be received before manufacturer may incorporate this change. (3) Custodian of master document shall make above revision and furnish revised document.		
b. ACTIVITY AUTHORIZED TO APPROVED CHANGE FOR GOVERNMENT HQ, ARDEC, AMSTA-AR-ESM	c. TYPED NAME (First, Middle Initial, Last) for ARTHUR J. REYDEMAN Chief, Arty Sys & Armor Div		
d. TITLE	e. SIGNATURE Kenneth King	f. DATE SIGNED (YYMMDD) 000223	
15.a. ACTIVITY ACCOMPLISHING REVISION	b. REVISION COMPLETED (Signature)	c. DATE SIGNED (YYMMDD)	

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		7. CAGE CODE 19200	8. DOCUMENT NO. D 12272102
9. TITLE OF DOCUMENT TERMINAL STUD	10. REVISION LETTER a. CURRENT D		b. NEW
			11. ECP NO. HOT2001
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES CPCU-12272555: M1 TANK/M2, M3 BFVS		NOR SHT 1 OF 1	ECP PAGE 7 OF 31
13. DESCRIPTION OF REVISION CHANGE: NOTE 3, ZONE C7& C8: FROM: 3. "MATERIAL: BRASS PER QQ-B-626, ALLOY 360, 1/2 HARD." TO: 3. "MATERIAL: BRASS PER ASTM B16, ALLOY 360, 1/2 HARD." FROM: 4. "FINISH: ELECTROPLATE WITH 0.0003 INCH MINIMUM THICKNESS OF TIN-LEAD SOLDER (50 TO 70% TIN) PER MIL-P-81728 OVER COPPER STRIKE AND FUSE OPT (THK APPLY BEFORE FUSION) OR HOT-SOLDER DIP WITH TIN LEAD (50 TO 70% TIN) TO 0.0001 INCH MINIMUM THICKNESS OVER COPPER STRIKE. OR BRIGHT ACID TIN PLATE TO 0.0001 INCH MINIMUM THICKNESS PER MIL-T-10727, TYPE 1 OVER COPPER STRIKE." TO: 4. "FINISH: ELECTROPLATE WITH 0.0003 INCH MINIMUM THICKNESS OF TIN-LEAD SOLDER (50 TO 70% TIN) PER SAE AMS-C-81728 OVER COPPER STRIKE AND FUSE OPT (THK APPLY BEFORE FUSION) OR HOT-SOLDER DIP WITH TIN LEAD (50 TO 70% TIN) TO 0.0001 INCH MINIMUM THICKNESS OVER COPPER STRIKE. OR BRIGHT ACID TIN PLATE TO 0.0001 INCH MINIMUM THICKNESS PER ASTM B545 OVER COPPER STRIKE."			
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d. TITLE	e. SIGNATURE 	f. DATE SIGNED (YYMMDD) 000223	
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		7. CAGE CODE 19200	8. DOCUMENT NO. D 12272228
9. TITLE OF DOCUMENT SCREW ASSEMBLY-MODULE INSTALLATION	10. REVISION LETTER a. CURRENT D		b. NEW
			11. ECP NO. HOT2001
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES CPCU-12272555: M1 TANK/M2, M3 BFVS		NOR SHT 1 OF 1	ECP PAGE 8 OF 31
13. DESCRIPTION OF REVISION CHANGE: CALLOUT, ZONE B4: FROM: "SLEEVING - M23053/11-111-C PER MIL-I-23053/11." TO: "SLEEVING - M23053/11-111-C PER MIL-DTL-23053/11."			
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b. ACTIVITY AUTHORIZED TO APPROVED CHANGE FOR GOVERNMENT HQ, AMSTA-AR-ESM	c. TYPED NAME (First, Middle Initial, Last) for ARTHUR J. HEYDENHAIN <small>Contracting Officer, Picatinny Arsenal</small>		
d. TITLE	e. SIGNATURE 	f. DATE SIGNED (YYMMDD) 000223	
15.a. ACTIVITY ACCOMPLISHING REVISION	b. REVISION COMPLETED (Signature)	c. DATE SIGNED (YYMMDD)	

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4. ORIGINATOR a. TYPED NAME (First, Middle Initial, Last) LEON OSTOPOWICZ	b. ADDRESS (Street, State, Zip Code) U.S. ARMY, TACOM-ARDEC AMSTA-AR-FSF-DT Picatinny Arsenal, NJ 07806-5000	5. CAGE CODE 19200	6. NOR NO.
		7. CAGE CODE 19200	8. DOCUMENT NO. E 12272269
9. TITLE OF DOCUMENT FORMED HARNESS ASSEMBLY, CONVERTER	10. REVISION LETTER a. CURRENT J	b. NEW	11. ECP NO. HOT2001
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES CPCU-12272555: M1 TANK/M2, M3 BFVS	NOR SHT 1 OF 2	ECP PAGE 9 OF 31	
13. DESCRIPTION OF REVISION CHANGE: NOTES: ZONE B8: FROM: 1. "POT CONNECTOR AND APPLY PRIMER IN ACCORDANCE WITH MIL-I-46838, TYPE II. SEAL CONNECTOR PINS PRIOR TO POTTING USING MIL-A-46146, TYPE I MATERIAL AND CURE AT ROOM TEMPERATURE FOR 16 HOURS MINIMUM." TO: 1. "POT CONNECTOR AND APPLY PRIMER IN ACCORDANCE WITH A-A-56023, TYPE II. SEAL CONNECTOR PINS PRIOR TO POTTING USING MIL-A-46146, TYPE I MATERIAL AND CURE AT ROOM TEMPERATURE FOR 16 HOURS MINIMUM." CHANGE: NOTES: ZONE B8: FROM: 2. "APPLY PER MIL-STD-130: 19207 ASSY 12272269 SERNO. .12 HIGH CHARACTERS USING MIL-I-43553 INK, LOCATE APPROX AS INDICATED. VENDOR DATA MARKING INCLUDED." TO: 2. "APPLY PER MIL-STD-130: 19207 ASSY 12272269 SERNO. .12 HIGH CHARACTERS USING A-A-56032 INK, LOCATE APPROX AS INDICATED. VENDOR DATA MARKING INCLUDED."			
14. THIS SECTION FOR GOVERNMENT USE ONLY			
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b. ACTIVITY AUTHORIZED TO APPROVED CHANGE FOR GOVERNMENT HQ, ARDEC, AMSTA-AR-ESM	c. TYPED NAME (First, Middle Initial, Last) per ARTHUR J. HEYDERMAN Chief, Arty Sys & Armor Div		
d. TITLE	e. SIGNATURE Kenneth Kempf	f. DATE SIGNED (YYMMDD) 000223	
15.a. ACTIVITY ACCOMPLISHING REVISION	b. REVISION COMPLETED (Signature)	c. DATE SIGNED (YYMMDD)	

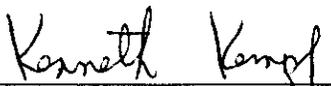
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		7. CAGE CODE 19200	8. DOCUMENT NO. E 12272269
9. TITLE OF DOCUMENT FORMED HARNESS ASSEMBLY, CONVERTER	10. REVISION LETTER a. CURRENT J	b. NEW	11. ECP NO. HOT2001
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES CPCU-12272555: M1 TANK/M2, M3 BFVS	NOR SHT 2 OF 2	ECP PAGE 10 OF 31	
13. DESCRIPTION OF REVISION CHANGE: NOTES: ZONE B8: FROM: 3. "SOLDER PER MIL-STD-2000" TO: 3. "SOLDER IN ACCORDANCE WITH BEST COMMERCIAL PRACTICE TO ENSURE COMPLIANCE WITH DRAWING OR SPECIFICATION REQUIREMENTS AS APPLICABLE." FROM: 6. "PRIOR TO INSERTING INTO CONNECTOR CRIMP CONTACT AND WIRE PER MIL-STD-454, REQUIREMENT 19, SOLDER WIRE TO CONTACT AFTER CRIMPING PER MIL -STD-2000. DO NOT PRE-TIN CRIMP BARREL OR WIRE, SOLDER WETTING BETWEEN WIRE AND CUP SHALL BE VISIBLE." TO: 6. "PRIOR TO INSERTING INTO CONNECTOR CRIMP CONTACT AND WIRE PER MIL-STD-454, REQUIREMENT 19, SOLDER WIRE TO CONTACT AFTER CRIMPING USING THE BEST COMMERCIAL PRACTICE. DO NOT PRE-TIN CRIMP BARREL OR WIRE, SOLDER WETTING BETWEEN WIRE AND CUP SHALL BE VISIBLE."			
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d. TITLE	e. SIGNATURE Kenneth Kempf	f. DATE SIGNED (YYMMDD) 000223	
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4. ORIGINATOR a. TYPED NAME (First, Middle Initial, Last) LEON OSTOPOWICZ	b. ADDRESS (Street, State, Zip Code) U.S. ARMY, TACOM-ARDEC AMSTA-AR-FSF-DT Picatinny Arsenal, NJ 07806-5000	5. CAGE CODE 19200	6. NOR NO.
		7. CAGE CODE 19200	8. DOCUMENT NO. E 12272582 sh1
9. TITLE OF DOCUMENT CONVERTER ASSEMBLY	10. REVISION LETTER a. CURRENT G	b. NEW	11. ECP NO. HOT2001
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES Cpcu-12272555:M1 TANK/M2,M3 BFVS	NOR SHT 1 OF 2	ECP PAGE 11 OF 31	
13. DESCRIPTION OF REVISION CHANGE: NOTES, ZONE B7, B8, SHEET 1: FROM: 2. "IDENTIFY PER MIL-STD- 130, USING MIL-I-43553 INK, WHITE LOCATE APPROX AS SHOWN, AIR OR HEAT CURE AT 150 DEGREES F MAX." TO: 2. "IDENTIFY PER MIL-STD- 130, USING A-A-56032 INK, WHITE LOCATE APPROX AS SHOWN, AIR OR HEAT CURE AT 150 DEGREES F MAX." FROM: 3. "SOLDER PER MIL-STD-454 REQUIREMENT 5." TO: 3. "SOLDER IN ACCORDANCE WITH BEST COMMERICAL PRACTICE TO ENSURE COMPLIANCE WITH DRAWING OR SPECIFICATION REQUIREMENTS AS APPLICABLE."			
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d. TITLE	e. SIGNATURE <i>Kenneth Kempf</i>	f. DATE SIGNED (YYMMDD) 000223	
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4. ORIGINATOR a. TYPED NAME (First, Middle Initial, Last) LEON OSTOPOWICZ	b. ADDRESS (Street, State, Zip Code) U.S. ARMY, TACOM-ARDEC AMSTA-AR-FSF-DT Picatinny Arsenal, NJ 07806-5000	5. CAGE CODE 19200	6. NOR NO.
		7. CAGE CODE 19200	8. DOCUMENT NO. E 12272582 SH 1
9. TITLE OF DOCUMENT CONVERTER ASSEMBLY	10. REVISION LETTER a. CURRENT G		11. ECP NO. H0T2001
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES CPCU-12272555: M1 TANK/M2,M3 BFVS		NOR SHT 2 OF 2	ECP PAGE 12 OF 31
13. DESCRIPTION OF REVISION CHANGE: CALLOUT: ZONE H5, SHEET 1: FROM: "2 - SCREW - NAS 6000 - 5" TO: "2 - SCREW - NAS 1635 - 04 -5" CHANGE: CALLOUT: ZONE F2, F3, SHEET 1: FROM: "4 - "O" RING MS9068-006" TO: "4 - "O" RING AS3582-006"			
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b. ACTIVITY AUTHORIZED TO APPROVED CHANGE FOR GOVERNMENT <i>HQ. ARDEC, AMSTA-AR-FSF-DT</i>		c. TYPED NAME (First, Middle Initial, Last) <i>for Art. Tech. J. Pennington</i> Chief, Arty Sys & Armor Div.	
d. TITLE	e. SIGNATURE <i>Kenneth Kempf</i>	f. DATE SIGNED (YYMMDD) 000223	
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		7. CAGE CODE 19200	8. DOCUMENT NO. E 12272583 SH 1
9. TITLE OF DOCUMENT CHASSIS, CONVERTER	10. REVISION LETTER a. CURRENT H		11. ECP NO. HOT2001
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES CPCU-12272555: M1 TANK/M2, M3 BFVS		NOR SHT 1 OF 3	ECP PAGE 13 OF 31
13. DESCRIPTION OF REVISION CHANGE: NOTES, ZONES B7, B8, C7 AND C8 OF SHEET 1: FROM: 2. "INSTALL PER MS33537 USING MIL-T-21309 TOOL. PRIOR TO INSTALLATION, GAGE ALL TAPPED HOLES AND APPLY WET UNTHINNED PRIMER PER TT-P-1757, TYPE AND COLOR OPTIONAL, TO OUTSIDE THREADS OF INSERT. DO NOT APPLY PRIMER TO INTERNAL THREADS OF INSERT. INSTALL AFTER FINISH." TO: 2. "INSTALL PER MS33537 USING A-A-59158 TOOL. PRIOR TO INSTALLATION, GAGE ALL TAPPED HOLES AND APPLY WET UNTHINNED PRIMER PER TT-P-1757, TYPE AND COLOR OPTIONAL, TO OUTSIDE THREADS OF INSERT. DO NOT APPLY PRIMER TO INTERNAL THREADS OF INSERT. INSTALL AFTER FINISH." FROM: 4. "APPLY REFERENCE DESIGNATIONS PER MIL-STD-130, USING MIL-I-43553 INK, .01 HIGH CHARACTERS, LOCATE APPROX AS SHOWN." TO: 4. "APPLY REFERENCE DESIGNATIONS PER MIL-STD-130, USING A-A-56032 INK, .01 HIGH CHARACTERS, LOCATE APPROX AS SHOWN."			
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b. ACTIVITY AUTHORIZED TO APPROVED CHANGE FOR GOVERNMENT HQ, ARDEC, AMSTA-AR-CSM	c. TYPED NAME (First, Middle Initial, Last) for ARTHUR J. HEYDERMAN Chief, Arty Sys & Mater Div		
d. TITLE	e. SIGNATURE <i>Kenneth Kempf</i>	f. DATE SIGNED (YYMMDD) 000223	
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		7. CAGE CODE 19200	8. DOCUMENT NO. E 12272583 SH 1
9. TITLE OF DOCUMENT CHASSIS, CONVERTER	10. REVISION LETTER a. CURRENT H	b. NEW	11. ECP NO. HOT2001
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES CPCU-12272555: M1 TANK/M2, M3 BFVS	NOR SHT 2 OF 3	ECP PAGE 14 OF 31	
13. DESCRIPTION OF REVISION CHANGE: NOTES, ZONES B7, B8, C7 AND C8 OF SHEET 1: FROM: 6. "INSTALL TERMINAL PER IMS-23840, TYPE I" TO: 6. "INSTALL TERMINALS AS FOLLOWS: BREAK MOUNTING HOLE EDGE 0.005 MAX RADIUS. DO NOT CHAMFER OR COUNTER-SINK. HOLE MUST BE FREE OF BURRS. INSTALL TERMINAL STUDS FIRMLY IN PLACE AND VERTICAL ALIGN WITHIN +/- 2 DEGREES TO MOUNTING SURFACE. INSULATOR SHOULDER TO BE FLUSH WITH MOUNTING SURFACE AND INSTALL TERMINAL STUD SHOULDER AGAINST INSULATOR SURFACE WITHOUT CRUSHING INSULATOR. NO EVIDENCE OF CRACKING, BENDING OR FRACTURING OF TERMINAL OR MOUNTING SURFACE."			
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b. ACTIVITY AUTHORIZED TO APPROVED CHANGE FOR GOVERNMENT HQ, ARDEC, AMSTA-AR-ES*	c. TYPED NAME (First, Middle Initial, Last) for ANTHONY J. HOFFMAN Chief, Arty Sys & Armor Div		
d. TITLE	e. SIGNATURE Kenneth Kempf	f. DATE SIGNED (YYMMDD) 000223	
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a. TYPED NAME (First, Middle Initial, Last) LEON OSTOPOWICZ	U.S. ARMY, TACOM-ARDEC AMSTA-AR-FSF-DT Picatinny Arsenal, NJ 07806-5000	19200	
		7. CAGE CODE 19200	8. DOCUMENT NO. E 12272583 SH 2
9. TITLE OF DOCUMENT CHASSIS, CONVERTER	10. REVISION LETTER		11. ECP NO.
	a. CURRENT H	b. NEW	HOT2001
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES CPCU-12272555: M1 TANK/M2, M3 BFVS		NOR SHT 2 OF 3	ECP PAGE 15 OF 31
13. DESCRIPTION OF REVISION			
<u>CHANGE: NOTES, ZONES B7, B8, C7, C8, D7 AND D8 OF SHEET 2:</u>			
<u>FROM:</u> 1. "MATERIAL: AL ALLOY 413 SPEC QQ-A-591 (DIE CASTING)"			
<u>TO:</u> 1. "MATERIAL: AL ALLOY 413 PER ASTM B85 (DIE CASTING)."			
14. THIS SECTION FOR GOVERNMENT USE ONLY			
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<input checked="" type="checkbox"/>	(1) Existing document supplemented by this NOR may be used in manufacture.		
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NO, ARDEC, AMSTA-AR-ESM		for ARTHUR J. HEYDERMAN Chief, Arty Sys & Armor	
d. TITLE	e. SIGNATURE	f. DATE SIGNED (YYMMDD)	
		000223	
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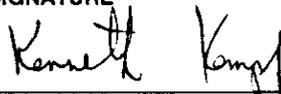
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9. TITLE OF DOCUMENT CHASSIS, CONVERTER	10. REVISION LETTER a. CURRENT H		11. ECP NO. HOT2001
		b. NEW	
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES CPCU-12272555: M1 TANK/M2, M3 BFVS		NOR SHT 3 OF 3	ECP PAGE 16 OF 31
13. DESCRIPTION OF REVISION CHANGE: NOTES, ZONES B7, B8, C7, C8, D7 AND D8 OF SHEET 2: FROM: 8. "INSPECT PER THE REQUIREMENTS OF QQ-A-591. SAMPLING FOR SOUNDNESS REQUIREMENT IS WAIVED. PENETRANT INSPECTION AND RADIOGRAPHIC INSPECTION NOT REQUIRED. FOUNDRY CONTROL TO BE ESTABLISHED BY VENDOR USING STANDARD INDUSTRY PRACTICES." TO: 8. "INSPECT PER THE REQUIREMENTS OF ASTM B85. SAMPLING FOR SOUNDNESS REQUIREMENT IS WAIVED. PENETRANT INSPECTION AND RADIOGRAPHIC INSPECTION NOT REQUIRED. FOUNDRY CONTROL TO BE ESTABLISHED BY VENDOR USING STANDARD INDUSTRY PRACTICES." FROM: 9. "IDENTIFY PER MIL-STD-130, 19207-12272583-3 CHARACTERS SHALL BE .06 HIGH AND SHALL BE RAISED (CAST IN) .040 MAX HIGH. LATEST CHANGE LETTER SHALL BE STAMPED AFTER PART NUMBER USING MIL-I-43553 BLACK EPOXY INK. LOCATE APPROX AS SHOWN." TO: 9. "IDENTIFY PER MIL-STD-130, 19207-12272583-3 CHARACTERS SHALL BE .06 HIGH AND SHALL BE RAISED (CAST IN) .040 MAX HIGH. LATEST CHANGE LETTER SHALL BE STAMPED AFTER PART NUMBER USING A-A-56032 BLACK EPOXY INK. LOCATE APPROX AS SHOWN."			
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b. ACTIVITY AUTHORIZED TO APPROVED CHANGE FOR GOVERNMENT HQ. ARDEC, AMSTA-AR-FSF-DT	c. TYPED NAME (First, Middle Initial, Last) for ARTHUR J. HEYDENWALD Chief, Army Sys & Armor Div		
d. TITLE	e. SIGNATURE Kenneth Kempf	f. DATE SIGNED (YYMMDD) 000223	
15.a. ACTIVITY ACCOMPLISHING REVISION	b. REVISION COMPLETED (Signature)	c. DATE SIGNED (YYMMDD)	

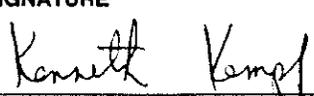
NOTICE OF REVISION (NOR) THIS REVISION DESCRIBED BELOW HAS BEEN AUTHORIZED FOR THE DOCUMENT LISTED.		1. DATE (YYMMDD) 000110	Form Approved OMB No. 0704-0188
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4. ORIGINATOR a. TYPED NAME (First, Middle Initial, Last) LEON OSTOPOWICZ	b. ADDRESS (Street, State, Zip Code) U.S. ARMY, TACOM-ARDEC AMSTA-AR-FSF-DT Picatinny Arsenal, NJ 07806-5000	5. CAGE CODE 19200	6. NOR NO.
		7. CAGE CODE 19200	8. DOCUMENT NO. E 12272584 SH 1
9. TITLE OF DOCUMENT PRINTED WIRING BOARD ASSY.	10. REVISION LETTER a. CURRENT F		b. NEW
			11. ECP NO. HOT2001
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES CPCU-12272555: M1 TANK/M2, M3 BFVS		NOR SHT 1 OF 2	ECP PAGE 17 OF 31
13. DESCRIPTION OF REVISION CHANGE: NOTES: ZONE C8, SHEET 1: FROM: 4. "IDENTIFY WITH VENDORS CODE IDENT, 19207 ASSY 12772584 AND SER NO. PER MIL-STD- 130, USING MIL-I-43553 INK, WHITE, .10 INCH CHARACTERS LOCATE APPROX AS SHOWN. AIR OR HEAT CURE 150 DEGREES MAX." TO: 4. "IDENTIFY WITH VENDORS CODE IDENT, 19207 ASSY 12772584 AND SER NO. PER MIL-STD- 130, USING A-A-56032 INK, TYPE II, WHITE, .10 INCH CHARACTERS LOCATE APPROX AS SHOWN. AIR OR HEAT CURE 150 DEGREES MAX." FROM: 12. "ASSEMBLE AND SOLDER PER SPEC 82577-SD3589037" TO: 12. "SOLDER IN ACCORDANCE WITH BEST COMMERICAL PRACTICE TO ENSURE COMPLIANCE WITH DRAWING OR SPECIFICATION REQUIREMENTS AS APPLICABLE."			
14. THIS SECTION FOR GOVERNMENT USE ONLY			
a. (X one)	<input checked="" type="checkbox"/> (1) Existing document supplemented by this NOR may be used in manufacture. <input type="checkbox"/> (2) Revised document must be received before manufacturer may incorporate this change. <input type="checkbox"/> (3) Custodian of master document shall make above revision and furnish revised document.		
b. ACTIVITY AUTHORIZED TO APPROVED CHANGE FOR GOVERNMENT HQ, ARDEC, AMSTA-AR-25M		c. TYPED NAME (First, Middle Initial, Last) for ARTHUR J. HEYDERMAN Chief, Army Sys & Armor Div.	
d. TITLE	e. SIGNATURE 	f. DATE SIGNED (YYMMDD) 000223	
15.a. ACTIVITY ACCOMPLISHING REVISION	b. REVISION COMPLETED (Signature)	c. DATE SIGNED (YYMMDD)	

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4. ORIGINATOR a. TYPED NAME (First, Middle Initial, Last) LEON OSTOPOWICZ	b. ADDRESS (Street, State, Zip Code) U.S. ARMY, TACOM-ARDEC AMSTA-AR-FSF-DT Picatinny Arsenal, NJ 07806-5000	5. CAGE CODE 19200	6. NOR NO.
		7. CAGE CODE 19200	8. DOCUMENT NO. E 12272584 SH 2
9. TITLE OF DOCUMENT PINTED WIRING BOARD ASSY.	10. REVISION LETTER a. CURRENT F		b. NEW
			11. ECP NO. HOT2001
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES CPCU-12272555: M1 TANK/M2, M3 BFVS		NOR SHT 2 OF 2	ECP PAGE 18 OF 31
13. DESCRIPTION OF REVISION CHANGE: CALLOUT: TWO PLACES, ZONE F1 & E1, SHEET 2: FROM: "4 - SCREW - MS16995 - 10" TO: "4 - SCREW - NASM 16995 - 10"			
14. THIS SECTION FOR GOVERNMENT USE ONLY			
a. (X one)	(1) Existing document supplemented by this NOR may be used in manufacture. (2) Revised document must be received before manufacturer may incorporate this change. (3) Custodian of master document shall make above revision and furnish revised document.		
b. ACTIVITY AUTHORIZED TO APPROVED CHANGE FOR GOVERNMENT HO, ARDEC, AMSTA-AR-ESM	c. TYPED NAME (First, Middle Initial, Last) ARTHUR J. HILBERMAN Chief, Arty Sys & Armor Div.		
d. TITLE	e. SIGNATURE Kenneth Kempf	f. DATE SIGNED (YYMMDD) 000223	
15.a. ACTIVITY ACCOMPLISHING REVISION	b. REVISION COMPLETED (Signature)	c. DATE SIGNED (YYMMDD)	

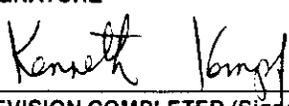
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4. ORIGINATOR	b. ADDRESS (Street, State, Zip Code)	5. CAGE CODE	6. NOR NO.
a. TYPED NAME (First, Middle Initial, Last) LEON OSTOPOWICZ	U.S. ARMY, TACOM-ARDEC AMSTA-AR-FSF-DT Picatinny Arsenal, NJ 07806-5000	19200	
		7. CAGE CODE 19200	8. DOCUMENT NO. D 12272598
9. TITLE OF DOCUMENT SCREW -MODULE INSTALLATION		10. REVISION LETTER	
		a. CURRENT C	b. NEW
			11. ECP NO. HOT2001
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES CPCU-12272555: M1 TANK/M2, M3 BFVS		NOR SHT 1 OF 1	ECP PAGE 19 OF 31
13. DESCRIPTION OF REVISION			
CHANGE: NOTES: ZONE B7 & B8:			
FROM: 4. "PASSIVATE PER QQ-P-35, TYPE IV."			
TO: 4. "PASSIVATE PER ASTM A967, NITRIC 2."			
14. THIS SECTION FOR GOVERNMENT USE ONLY			
a. (X one)			
<input type="checkbox"/>	(1) Existing document supplemented by this NOR may be used in manufacture.		
<input type="checkbox"/>	(2) Revised document must be received before manufacturer may incorporate this change.		
<input type="checkbox"/>	(3) Custodian of master document shall make above revision and furnish revised document.		
b. ACTIVITY AUTHORIZED TO APPROVED CHANGE FOR GOVERNMENT		c. TYPED NAME (First, Middle Initial, Last)	
HQ, ARDEC, AMSTA-AR-FSF-DT		for ARTHUR J. HEYDERMAN Chief, Arty Sys & Armor Div.	
d. TITLE	e. SIGNATURE	f. DATE SIGNED (YYMMDD)	
	Kenneth King	000223	
15.a. ACTIVITY ACCOMPLISHING REVISION	b. REVISION COMPLETED (Signature)		c. DATE SIGNED (YYMMDD)

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4. ORIGINATOR a. TYPED NAME (First, Middle Initial, Last) LEON OSTOPOWICZ	b. ADDRESS (Street, State, Zip Code) U.S. ARMY, TACOM-ARDEC AMSTA-AR-FSF-DT Picatinny Arsenal, NJ 07806-5000	5. CAGE CODE 19200	6. NOR NO.
		7. CAGE CODE 19200	8. DOCUMENT NO. E 12325121
9. TITLE OF DOCUMENT CONTACT, ELECTRICAL CONNECTOR SOCKET	10. REVISION LETTER a. CURRENT C	b. NEW	11. ECP NO. HOT2001
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES CPCU-12272555: M1 TANK/M2, M3 BFVS	NOR SHT 1 OF 1	ECP PAGE 20 OF 31	
13. DESCRIPTION OF REVISION			
CHANGE: NOTES, MATERIAL: ZONE: B7 & B8:			
FROM: 1.3 "HOOD: STEEL, STAINLESS, SHEET, TYP. 302 OR 305, SPEC QQ-S-766, PASSIVATE PER ASTM A380."			
TO: 1.3 "HOOD: STEEL, STAINLESS, SHEET, TYP. 302 OR 305, PER ASTM A240, PASSIVATE PER ASTM A380."			
CHANGE: NOTES, FINISH: ZONE C7 & C8:			
FROM: 2.2. "FINISH 1.8.2 OF MIL-STD-171, .00005 MIN THICKNESS OR HOT DIP TO MEET SOLDERABILITY REQUIREMENTS OF MIL-STD-202, METHOD 208, USING SN60 OR SN63 SOLDER, .00005 MIN THICKNESS."			
TO: 2.2. "FINISH 1.8.2 OF MIL-STD-171, .00005 MIN THICKNESS OR HOT DIP TO MEET SOLDERABILITY REQUIREMENTS OF MIL-STD-202, METHOD 208, USING J-STD-006, Sn60Pb40A OR Sn63Pb37A SOLDER, .00005 MIN THICKNESS."			
14. THIS SECTION FOR GOVERNMENT USE ONLY			
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b. ACTIVITY AUTHORIZED TO APPROVED CHANGE FOR GOVERNMENT HQ, ARDEC, AMSTA-AR-FSF-DT	c. TYPED NAME (First, Middle Initial, Last) for ARTHUR J. HEYDERMAN Chief Arty Sys & Armor Div		
d. TITLE	e. SIGNATURE Kenneth Koyf	f. DATE SIGNED (YYMMDD) 000223	
15.a. ACTIVITY ACCOMPLISHING REVISION	b. REVISION COMPLETED (Signature)	c. DATE SIGNED (YYMMDD)	

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4. ORIGINATOR a. TYPED NAME (First, Middle Initial, Last) LEON OSTOPOWICZ	b. ADDRESS (Street, State, Zip Code) U.S. ARMY, TACOM-ARDEC AMSTA-AR-FSF-DT Picatinny Arsenal, NJ 07806-5000	5. CAGE CODE 19200 7. CAGE CODE 19200	6. NOR NO. 8. DOCUMENT NO. E 12325150
9. TITLE OF DOCUMENT CONVERTER ASSEMBLY	10. REVISION LETTER a. CURRENT D b. NEW	11. ECP NO. HOT2001	
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES CPCU-12272555: M1 TANK/M2, M3 BFVS	NOR SHT 1 OF 1	ECP PAGE 21 OF 31	
13. DESCRIPTION OF REVISION CHANGE: NOTES, ZONE B7, B8: FROM: 2. "IDENTIFY PER MIL-STD- 130, USING MIL-I-43553 INK, WHITE LOCATE APPROX AS SHOWN." TO: 2. "IDENTIFY PER MIL-STD- 130, USING A-A-56032 INK, WHITE LOCATE APPROX AS SHOWN." FROM: 3. "SOLDER IN ACCORDANCE WITH MIL-STDD-2000, TASK F." TO: 3. "SOLDER IN ACCORDANCE WITH BEST COMMERCIAL PRACTICE TO ENSURE COMPLIANCE WITH DRAWING OR SPECIFICATION REQUIREMENTS AS APPLICABLE."			
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b. ACTIVITY AUTHORIZED TO APPROVED CHANGE FOR GOVERNMENT HQ, ARDEC, AMSTA-AR-ESM		c. TYPED NAME (First, Middle Initial, Last) ARTHUR J. FREIDENMAN Chief, Artv Sys & Armor Div.	
d. TITLE	e. SIGNATURE 	f. DATE SIGNED (YYMMDD) 000223	
15.a. ACTIVITY ACCOMPLISHING REVISION	b. REVISION COMPLETED (Signature)	c. DATE SIGNED (YYMMDD)	

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		7. CAGE CODE 19200	8. DOCUMENT NO. E 12325152
9. TITLE OF DOCUMENT CHASSIS, CONVERTER	10. REVISION LETTER a. CURRENT D		11. ECP NO. HOT2001
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES CPCU-12272555: M1 TANK/M2, M3 BFVS		NOR SHT 1 OF 1	ECP PAGE 22 OF 31
13. DESCRIPTION OF REVISION CHANGE: NOTES, ZONE C8: FROM: 4. "APPLY REFERENCE DESIGNATIONS PER MIL-STD-130, USING MIL-I-43553 INK, TYPE I, .10 HIGH CHARACTERS, LOCATE APPROX AS SHOWN." TO: 4. "APPLY REFERENCE DESIGNATIONS PER MIL-STD-130, USING A-A-56032 INK, TYPE I, .10 HIGH CHARACTERS, LOCATE APPROX AS SHOWN."			
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b. ACTIVITY AUTHORIZED TO APPROVED CHANGE FOR GOVERNMENT HQ, ARDEC, AMSTA-AR-ESM	c. TYPED NAME (First, Middle Initial, Last) for ARTHUR J. HEYDERMAN Chief, Army Sig & Comm		
d. TITLE	e. SIGNATURE 	f. DATE SIGNED (YYMMDD) 000223	
15.a. ACTIVITY ACCOMPLISHING REVISION	b. REVISION COMPLETED (Signature)	c. DATE SIGNED (YYMMDD)	

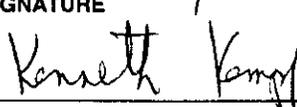
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4. ORIGINATOR a. TYPED NAME (First, Middle Initial, Last) LEON OSTOPOWICZ	b. ADDRESS (Street, State, Zip Code) U.S. ARMY, TACOM-ARDEC AMSTA-AR-FSF-DT Picatinny Arsenal, NJ 07806-5000	5. CAGE CODE 19200	6. NOR NO.
		7. CAGE CODE 19200	8. DOCUMENT NO. E 12325153 SH 1
9. TITLE OF DOCUMENT PRINTED WIRING BOARD ASSY. CONVERTER	10. REVISION LETTER a. CURRENT H		11. ECP NO. HOT2001
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES CPCU-12272555: M1 TANK/M2, M3 BFVS		NOR SHT 1 OF 2	ECP PAGE 23 OF 31
13. DESCRIPTION OF REVISION CHANGE: NOTES, ZONE C8 SHEET 1: FROM: 4. "APPLY REFERENCE DESIGNATIONS PER MIL-STD-130, USING MIL-I-43553 INK, TYPE II, CONTRASTING COLORS, .09 HIGH CHARACTERS, LOCATE APPROX AS SHOWN." TO: 4. "APPLY REFERENCE DESIGNATIONS PER MIL-STD-130, USING A-A-56032 INK, TYPE II, CONTRASTING COLORS, .09 HIGH CHARACTERS, LOCATE APPROX AS SHOWN." CHANGE: NOTES, ZONE D8 SHEET 1: FROM: 8. "ALL METAL CASE TRANSISTORS AND MICROCIRCUITS TO BE MOUNTED ABOVE PRINTED CIRCUIT BOARD SURFACE 0.020 TO 0.060. THE USE OF MIL-M-38527 SPACERS IS OPTIONAL." TO: 8. "ALL METAL CASE TRANSISTORS AND MICROCIRCUITS TO BE MOUNTED ABOVE PRINTED CIRCUIT BOARD SURFACE 0.020 TO 0.060. THE USE OF A-A-55485 SPACERS IS OPTIONAL."			
14. THIS SECTION FOR GOVERNMENT USE ONLY			
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b. ACTIVITY AUTHORIZED TO APPROVED CHANGE FOR GOVERNMENT HQ, ARDEC, AMSTA-AR-ESM		c. TYPED NAME (First, Middle Initial, Last) <i>for</i>	
d. TITLE	e. SIGNATURE <i>Kenneth Kempf</i>	f. DATE SIGNED (YYMMDD) 000223	
15.a. ACTIVITY ACCOMPLISHING REVISION	b. REVISION COMPLETED (Signature)	c. DATE SIGNED (YYMMDD)	

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4. ORIGINATOR a. TYPED NAME (First, Middle Initial, Last) LEON OSTOPOWICZ	b. ADDRESS (Street, State, Zip Code) U.S. ARMY, TACOM-ARDEC AMSTA-AR-FSF-DT Picatinny Arsenal, NJ 07806-5000	5. CAGE CODE 19200	6. NOR NO.
		7. CAGE CODE 19200	8. DOCUMENT NO. E 12325153 SH 2
9. TITLE OF DOCUMENT PRINTED WIRING BOARD ASSY. CONVERTER		10. REVISION LETTER a. CURRENT H	
		b. NEW	
		11. ECP NO. HOT2001	
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES CPCU-12272555: M1 TANK/M2, M3 BFVS		NOR SHT 2 OF 2	ECP PAGE 25 OF 31
13. DESCRIPTION OF REVISION CHANGE: CALLOUT: ZONE E1, SHEET 2: FROM: "8 - SCREW - MS16995 - 10" TO: "8 - SCREW - NASM 16995 - 10"			
14. THIS SECTION FOR GOVERNMENT USE ONLY			
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b. ACTIVITY AUTHORIZED TO APPROVED CHANGE FOR GOVERNMENT HQ, ARDEC, AMSTA-AR-ESM		c. TYPED NAME (First, Middle Initial, Last) J. HEYDERMAN Chief, Arty Sys & Ammun	
d. TITLE	e. SIGNATURE 	f. DATE SIGNED (YYMMDD) 000223	
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		7. CAGE CODE 19200	8. DOCUMENT NO. E 12325154
9. TITLE OF DOCUMENT PRINTED WIRING BOARD ASSY. CONVERTER	10. REVISION LETTER a. CURRENT E		11. ECP NO. HOT2001
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES CPCU-12272555: M1 TANK/M2, M3 BFVS		NOR SHT 1 OF 1	ECP PAGE 26 OF 31
13. DESCRIPTION OF REVISION CHANGE: NOTES, ZONE: D7 & D8 : FROM: 9. "VENDOR DATA MARKING AREA, APPLY PER MIL-STD-130, CONTRASTING COLOR, LOCATE APPROX AS SHOWN, CURE 180 DEGREES F MIN, INK PER MIL-I-43553, TYPE II." TO: 9. "VENDOR DATA MARKING AREA, APPLY PER MIL-STD-130, CONTRASTING COLOR, LOCATE APPROX AS SHOWN, CURE 180 DEGREES F MIN, INK PER A-A-56032, TYPE II." CHANGE: NOTES, ZONE D8: FROM: 12. "MARK: USING INK PER SPEC MIL-I-43553, TYPE II, CONTRASTING COLOR, .09 INCH HIGH CHARACTERS LOCATE APPROX AS SHOWN. CURE 180 DEGREES F MIN, 19200ASSY12325153 SERNO." TO: 12. "MARK: USING INK PER SPEC A-A-56032, TYPE II, CONTRASTING COLOR, .09 INCH HIGH CHARACTERS LOCATE APPROX AS SHOWN. CURE 180 DEGREES F MIN, 19200ASSY12325153 SERNO."			
14. THIS SECTION FOR GOVERNMENT USE ONLY			
a. (X one)	(1) Existing document supplemented by this NOR may be used in manufacture. (2) Revised document must be received before manufacturer may incorporate this change. (3) Custodian of master document shall make above revision and furnish revised document.		
b. ACTIVITY AUTHORIZED TO APPROVED CHANGE FOR GOVERNMENT	c. TYPED NAME (First, Middle Initial, Last) HQ. ARDEC, AMSTA-AR-FSF-DT for ARTHUR J. HEYDERMAN Chief, Arty Sys & Armor Div		
d. TITLE	e. SIGNATURE Kenneth Kumpf	f. DATE SIGNED (YYMMDD) 000223	
15.a. ACTIVITY ACCOMPLISHING REVISION	b. REVISION COMPLETED (Signature)	c. DATE SIGNED (YYMMDD)	

NOTICE OF REVISION (NOR) THIS REVISION DESCRIBED BELOW HAS BEEN AUTHORIZED FOR THE DOCUMENT LISTED.		1. DATE (YYMMDD) 000110	Form Approved OMB No. 0704-0188
Public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of collection of information, including suggestions for reducing this burden to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503 PLEASE DO NOT RETURN YOUR COMPLETED FORM TO EITHER OF THESE ADDRESSES. RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THIS CONTRACT/PROCURING ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.		2. PROCURING ACTIVITY NO. HOT2001	
4. ORIGINATOR		5. CAGE CODE 19200	6. NOR NO.
a. TYPED NAME (First, Middle Initial, Last) LEON OSTOPOWICZ	b. ADDRESS (Street, State, Zip Code) U.S. ARMY, TACOM-ARDEC AMSTA-AR-FSF-DT Picatinny Arsenal, NJ 07806-5000	7. CAGE CODE 19200	8. DOCUMENT NO. E 12325155
9. TITLE OF DOCUMENT FORMED HARNESS ASSEMBLY, CONVERTER		10. REVISION LETTER	
		a. CURRENT D	b. NEW
11. ECP NO. HOT2001		12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES CPCU-12272555: M1 TANK/M2, M3 BFVS	
		NOR SHT 1 OF 2	ECP PAGE 27 OF 31
13. DESCRIPTION OF REVISION			
CHANGE: NOTES: ZONE B8:			
FROM: 1. "POT AND SEAL PER 82577 - SD3843612, TYPE OPTIONAL."			
TO: 1. "POT CONNECTOR AND APPLY PRIMER IN ACCORDANCE WITH A-A-56023, TYPE II. SEAL CONNECTOR PINS PRIOR TO POTTING USING MIL-A-46146, TYPE I MATERIAL AND CURE AT ROOM TEMPERATURE FOR 16 HOURS MINIMUM."			
CHANGE: NOTES: ZONE B8:			
FROM: 2. "IDENTIFY PER MIL-STD-130: 19207 ASSY 12325155 SERNO. CONTRASTING COLOR, .12 HIGH CHARACTERS USING MIL-I-43553 INK, TYPE II, LOCATE APPROX AS SHOWN. VENDOR DATA MARKING INCLUDED."			
TO: 2. "IDENTIFY PER MIL-STD-130: 19207 ASSY 12325155 SERNO. CONTRASTING COLOR, .12 HIGH CHARACTERS USING A-A-56032, INK, TYPE II, LOCATE APPROX AS SHOWN. VENDOR DATA MARKING INCLUDED."			
14. THIS SECTION FOR GOVERNMENT USE ONLY			
a. (X one)	<input checked="" type="checkbox"/>	(1) Existing document supplemented by this NOR may be used in manufacture.	
	<input type="checkbox"/>	(2) Revised document must be received before manufacturer may incorporate this change.	
	<input type="checkbox"/>	(3) Custodian of master document shall make above revision and furnish revised document.	
b. ACTIVITY AUTHORIZED TO APPROVED CHANGE FOR GOVERNMENT HQ, ARDEC, AMSTA-AR-cSM		c. TYPED NAME (First, Middle Initial, Last) for ARTHUR J. HEYDERMAN Chief, Arty Sys & Draw	
d. TITLE	e. SIGNATURE 	f. DATE SIGNED (YYMMDD) 000223	
15.a. ACTIVITY ACCOMPLISHING REVISION	b. REVISION COMPLETED (Signature)	c. DATE SIGNED (YYMMDD)	

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4. ORIGINATOR a. TYPED NAME (First, Middle Initial, Last) LEON OSTOPOWICZ	b. ADDRESS (Street, State, Zip Code) U.S. ARMY, TACOM-ARDEC AMSTA-AR-FSF-DT Picatinny Arsenal, NJ 07806-5000	5. CAGE CODE 19200	6. NOR NO.
		7. CAGE CODE 19200	8. DOCUMENT NO. E 12325155
9. TITLE OF DOCUMENT FORMED HARNESS ASSEMBLY, CONVERTER	10. REVISION LETTER a. CURRENT D	b. NEW	11. ECP NO. H0T2001
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES CPCU-12272555: M1 TANK/M2, M3 BFVS	NOR SHT 2 OF 2	ECP PAGE 28 OF 31	
13. DESCRIPTION OF REVISION CHANGE: NOTES: ZONE B8: FROM: 3. "SOLDER IN ACCORDANCE WITH MIL-STD-2000, TASK F" TO: 3. "SOLDER IN ACCORDANCE WITH BEST COMMERCIAL PRACTICE TO ENSURE COMPLIANCE WITH DRAWING OR SPECIFICATION REQUIREMENTS AS APPLICABLE."			
14. THIS SECTION FOR GOVERNMENT USE ONLY			
a. (X one)	(1) Existing document supplemented by this NOR may be used in manufacture. (2) Revised document must be received before manufacturer may incorporate this change. (3) Custodian of master document shall make above revision and furnish revised document.		
b. ACTIVITY AUTHORIZED TO APPROVED CHANGE FOR GOVERNMENT HO. ARDEC, AMSTA-AR-ESM	c. TYPED NAME (First, Middle Initial, Last) for ARTHUR J. HEYDERMAN Chief, Arty Sys & Armor Div		
d. TITLE	e. SIGNATURE Kenneth Kempf	f. DATE SIGNED (YYMMDD) 000223	
15.a. ACTIVITY ACCOMPLISHING REVISION	b. REVISION COMPLETED (Signature)	c. DATE SIGNED (YYMMDD)	

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4. ORIGINATOR		5. CAGE CODE 19200	6. NOR NO.
a. TYPED NAME (First, Middle Initial, Last) LEON OSTOPOWICZ	b. ADDRESS (Street, State, Zip Code) U.S. ARMY, TACOM-ARDEC AMSTA-AR-FSF-DT Picatinny Arsenal, NJ 07806-5000	7. CAGE CODE 19200	8. DOCUMENT NO. E 12325156
9. TITLE OF DOCUMENT CONTACT, ELECTRICAL CONNECTOR SOCKET		10. REVISION LETTER	
		a. CURRENT C	b. NEW
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES CPCU-12272555: M1 TANK/M2, M3 BFVS		NOR SHT 1 OF 1	11. ECP NO. HOT2001
13. DESCRIPTION OF REVISION			
CHANGE: NOTES, ZONE: D7 & D8:			
FROM: 7. "IDENTIFY PER MIL-STD-130: USING MIL-I-43553 INK, TYPE I, CONTRASTING COLOR. .10 HIGH CHARACTERS. LOCATE APPROX AS SHOWN."			
TO: 7. "IDENTIFY PER MIL-STD-130: USING A-A-56032 INK, TYPE I, CONTRASTING COLOR. .10 HIGH CHARACTERS. LOCATE APPROX AS SHOWN."			
CHANGE: NOTES: ZONE D7 & D8:			
FROM: 8. "COAT ALL EXPOSED COPPER WITH SOLDER PER MIL-STD-454, REQUIREMENT 5."			
TO: 8. "COAT ALL EXPOSED COPPER WITH SOLDER PER MIL-HDBK-454, REQUIREMENT 5."			
14. THIS SECTION FOR GOVERNMENT USE ONLY			
a. (X one)	(1) Existing document supplemented by this NOR may be used in manufacture. (2) Revised document must be received before manufacturer may incorporate this change. (3) Custodian of master document shall make above revision and furnish revised document.		
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d. TITLE	e. SIGNATURE 	f. DATE SIGNED (YYMMDD) 000223	
15.a. ACTIVITY ACCOMPLISHING REVISION		b. REVISION COMPLETED (Signature)	c. DATE SIGNED (YYMMDD)

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4. ORIGINATOR a. TYPED NAME (First, Middle Initial, Last) LEON OSTOPOWICZ	b. ADDRESS (Street, State, Zip Code) U.S. ARMY, TACOM-ARDEC AMSTA-AR-FSF-DT Picatinny Arsenal, NJ 07806-5000	5. CAGE CODE 19200	6. NOR NO.
		7. CAGE CODE 19200	8. DOCUMENT NO. D 12325157
9. TITLE OF DOCUMENT TRANSISTOR, POWER MOSFET, N - CHANNEL	10. REVISION LETTER a. CURRENT E		11. ECP NO. HOT2001
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES CPCU-12272555: M1 TANK/M2, M3 BFVS		NOR SHT 1 OF 1	ECP PAGE 30 OF 31
13. DESCRIPTION OF REVISION CHANGE: NOTES: ZONE B7 & B8: FROM: 3. "IDENTIFY PER MIL-STD-130: 19200-12325157 CONSTRASING COLOR, .06 MIN HIGH CHARACTERS USING MIL-I-43553 INK, TYPE I, LOCATE APPROX AS SHOWN" TO: 3. "IDENTIFY PER MIL-STD-130: 19200-12325157 CONSTRASING COLOR, .06 MIN HIGH CHARACTERS USING A-A-56032 INK, TYPE I, LOCATE APPROX AS SHOWN"			
14. THIS SECTION FOR GOVERNMENT USE ONLY			
a. (X one)	(1) Existing document supplemented by this NOR may be used in manufacture. (2) Revised document must be received before manufacturer may incorporate this change. (3) Custodian of master document shall make above revision and furnish revised document.		
b. ACTIVITY AUTHORIZED TO APPROVED CHANGE FOR GOVERNMENT HQ, ARDEC, AMSTA-AR-ESM		c. TYPED NAME (First, Middle Initial, Last) for ARTHUR J. HEYDERMAN Chief, Acty Svc & Armor Div.	
d. TITLE	e. SIGNATURE <i>Kenneth Konyl</i>	f. DATE SIGNED (YYMMDD) 000223	
15.a. ACTIVITY ACCOMPLISHING REVISION	b. REVISION COMPLETED (Signature)	c. DATE SIGNED (YYMMDD)	

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4. ORIGINATOR a. TYPED NAME (First, Middle Initial, Last) LEON OSTOPOWICZ	b. ADDRESS (Street, State, Zip Code) U.S. ARMY, TACOM-ARDEC AMSTA-AR-FSF-DT Picatinny Arsenal, NJ 07806-5000	5. CAGE CODE 19200	6. NOR NO.
		7. CAGE CODE 19200	8. DOCUMENT NO. D 12325193
9. TITLE OF DOCUMENT BRIDGE DIODE	10. REVISION LETTER a. CURRENT F		b. NEW 11. ECP NO. HOT2001
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES CPCU-12272555: M1 TANK/M2, M3 BFVS		NOR SHT 1 OF 1	ECP PAGE 31 OF 31
13. DESCRIPTION OF REVISION CHANGE: NOTES: ZONE D7 & D8: FROM: 4. "IDENTIFY PER MIL-STD-130: 19200-12325193 USING INK PER MIL-I-43553, TYPE I, CONTRASTING COLOR, .06 +/- .02 HIGH CHARACTERS." TO: 4. "IDENTIFY PER MIL-STD-130: 19200-12325193 USING INK PER A-A-56032, TYPE I, CONTRASTING COLOR, .06 +/- .02 HIGH CHARACTERS."			
14. THIS SECTION FOR GOVERNMENT USE ONLY			
a. (X one)	(1) Existing document supplemented by this NOR may be used in manufacture. (2) Revised document must be received before manufacturer may incorporate this change. (3) Custodian of master document shall make above revision and furnish revised document.		
b. ACTIVITY AUTHORIZED TO APPROVED CHANGE FOR GOVERNMENT NO. 10005, 0704-01-004		c. TYPED NAME (First, Middle Initial, Last) <i>for</i>	
d. TITLE	e. SIGNATURE <i>Kenneth Kempf</i>	f. DATE SIGNED (YYMMDD) 000223	
15.a. ACTIVITY ACCOMPLISHING REVISION	b. REVISION COMPLETED (Signature)	c. DATE SIGNED (YYMMDD)	

DOCUMENT SUMMARY LIST

Item: CONVERTER, ASSEMBLY
NSN: 1240-01-217-2334
Control Number/PRON: P49ANAX4

Identifies all first tier documents (cited in SOW) (applicable DIDs). Also included are all referenced documents (2nd, (includes DID block 10 references), 3rd and lower tier) which have been tailored.

DOCUMENT CATEGORY:

CATEGORY 0 - Unless otherwise specified in the solicitation, contract, or contract modifications, all documents are for guidance and information only.

CATEGORY 1 - The requirements contained in the directly cited document are contractually applicable to the extent specified. All referenced documents are for guidance and information only.

CATEGORY 2 - The requirements contained in the directly cited document and the reference documents identified in the directly cited document are contractually applicable to the extent specified. All subsequently referenced documents are for guidance and information only.

CATEGORY 3 - Unless otherwise specified in the solicitation, contract or contract modification, all requirements contained in the directly cited document and all reference and subsequently referenced documents are contractually applicable to the extent specified.

Document Number (Contract Reference) Applicable Tailoring	Document Title	Document Date/ Document Category
1a. MIL-STD-2549 Table DIP 4-1	Configuration Management Data Interface	30 Jun 97 Cat 2
1b. DI-CMAN-81554 (seq A001)	Configuration Change Control Data Information Packet	30 Jun 97 Cat 2
2. ANSI/ISO/ASQC Q9002 or equivalent	Model for Quality Assurance in Production, Installation & Servicing	18 Jul 94

SPECIAL PACKAGING INSTRUCTION

Form Approved
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 30 days per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, Va 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project(0704-0188), Washington, DC 20503. Please do not return your form to either of these addresses.

1. PART OR DRAWING NO. 12325150 CONVERTER ASSEMBLY		NOMENCLATURE		2. CODE INDENT 19207	3. SPI NO. (AM) P12325150
4. NATIONAL STOCK NO. 1240012172334				5. DATE OF DRAWING/SPI (YYMMDD) 99-04-14	6. REVISION / ERR NO. -/L9K2006
7. QUP / UNIT OF ISSUE 1/EA	8. ICG	9. UNIT PACK WT. (LB) (0.0) 0.57		10. UNIT PACK CU (CU. FT.)(0.000) 0.037	11. UNIT PACK SIZE (INCHES)(00.0) 7.2 X 5.5 X 2.6
		18. STEPS	19. REQD	20. DESCRIPTION	
12. MILITARY PRESERVATION MIL-STD-2073-1C, METHOD 41		1		DWG.9370051,SEE NOTE (A)	
13. CLEANING *					
14. DRYING *					
15. PACKING					
a. LEVEL A					
MIL-STD-2073-1C					
b. LEVEL B					
MIL-STD-2073-1C					
16. MARKING					
MIL-STD-129					

*** UNLESS OTHERWISE SPECIFIED, CLEANING AND DRYING SHALL BE IN ACCORDANCE WITH PARAGRAPH 5.2.1 OF MIL-STD-2073-1. WEIGHTS AND SIZES ARE ESTIMATED AND MAY VARY SLIGHTLY. INTERMEDIATE PACKAGING AND PACKING WILL BE IN ACCORDANCE WITH SPECIFICATION MIL-STD-2073-1 OR AS OTHERWISE SPECIFIED HEREIN.**

(A) PRESERVATION PACKAGING AND PACKING AND MARKING SHALL BE IN ACCORDANCE WITH DRAWING 9370051.

WSC: MM ITEM SIZE: 6.15X4.50X1.64 ITEM WEIGHT: 0.39 APPROVED: James F. Zoll

STATEMENT A, UNLIMITED

SECTION L

L.1 PROPOSAL INSTRUCTIONS

L.1.1 PRICE

The Offeror shall enter firm fixed unit prices for each quantity range, and each ordering period on the pricing sheet at Attachment 09. All unit prices will be binding. The Government reserves the right to require submission of any information necessary to validate the reasonableness and realism of an offer.

L.2.1 FINANCIAL CAPABILITY

All offerors shall provide the most recent annual financial statements for the prime and all major subcontractors. Major subcontractors and vendors are those where proposed costs/prices total at least \$500,000 in any given contract year. If annual reports are not available, submissions (from the prime and/or major subcontractors) shall include at a minimum the past year's balance sheets, income statements and statements of cash flow, including footnotes. A copy of the applicable certified public accountant's (CPA) opinion shall be included, if available. Any additional information provided in the offeror's (including prime and/or major subcontractors) submission package will also be considered. Examples of other information include: current part year financial statements, current open credit lines, and pro forma financial statements for future years. We may use the data you provide, and data we gather from other sources to evaluate the contractor's financial capability. Failure to submit financial documentation may make the offeror ineligible for award.

L.3.1 PAST PERFORMANCE

The offeror shall include a description of previous U.S. Government, and/or commercial contracts, limited to the ten (10) most relevant prime and major subcontracts, that are relevant/similar in size, scope, and complexity to the effort required in this solicitation and performed, and/or delivered during the last three (3) years previous to the date of the solicitation. The term "similar" is defined as a contract for a multi-function power supply capable of delivering a variety of precisely timed and formed dc outputs and a 110v ac output from a 16-30 vdc input.

For each of your relevant past contracts you should provide the following information:

- a. Contract Number.
- b. Contract type.
- c. Award price/Cost.
- d. Original delivery schedule.
- e. Final, or projected final, delivery schedule.
- f. Your (and any significant subcontractors) CAGE/DUNNS numbers and email address.
- g. Government or commercial contracting activity address.
- h. Procuring Contracting Officer's name, telephone/fax numbers and email address.
- i. Government or commercial contracting activity technical representative, names, telephone/fax numbers and email address.
- j. Government DCMC location and address. The Administrative contracting officer, Industrial Specialist, Quality Representative names, address, telephone/fax numbers and email address.
- k. Description of the relevant contract scope of work and similarities between the scope of work in this solicitation.
- l. Include an explanation of delivery schedule requirements that were not met, and any corrective actions taken to avoid problems in the future.

Cancellations and terminations: Identify any recent contract, which may have been terminated, or cancelled for any reason, in whole or in part. Include prime contractors; contract under which you were a subcontractor and any of your subcontractor's contracts. Provide the information requested in L.2.1 above for any of these contracts. If there were no cancellations or terminations, please state that.

L.3.2 We may use the data you provide, and data we gather from other sources to evaluate the contractors past performance. Since we may not interview all the sources you provide, it is incumbent upon each offeror to explain all the data they provide. We do not assume the duty to search for data to cure problems we find in proposals. The burden of providing thorough and complete past performance information remains with the offeror. We may reject a proposal if it does not contain the information required.

L.3.3 If the offeror intends to subcontract a major portion of the requirement of the solicitation, the offeror shall identify the proposed subcontractors and provide adequate information per L.2.1 and L.3.1, as to allow the Government to perform an evaluation of the subcontractor's financial capabilities and past performance.

L.3.4 The offerors shall include in their proposal the written consent of their proposed subcontractors allowing the Government to discuss the subcontractor's past performance valuation with the offeror during negotiation, if applicable.

SECTION M

M.1 BASIS FOR AWARD

Selection of an offeror for award will be based on an evaluation of proposals in three Areas: (1) Price, (2) Financial Capability, and (3) Past Performance. Each area is separately described below. The Past Performance Area and the Financial Capability Area will not be numerically scored but, rather, will be rated in an adjectival and narrative manner. The award of a Contract will be made to that offeror whose proposal offers the best value to the Government based on an integrated assessment of Price, Financial Capability and Past Performance; consequently, the government may award to other than the low offeror. The Area of Past Performance is more important than the area of Financial Capability which is more important than Price. Any proposal which is unrealistically high or low in price may be deemed indicative of a failure to comprehend the Government's requirements and may be rejected for such a reason. Offerors are urged to ensure that their proposals are submitted on the most favorable terms in order to reflect their best possible potential, since less than the optimal initial proposal could result in the exclusion of the offeror from further consideration.

M. 2 PRICE AREA

M.2.1 The offeror shall be evaluated based on the proposal's total overall evaluated price to the Government. The evaluated prices will be calculated by summing the multiplication of each Order Quantity Unit Price by its respective Weight and the Minimum Order Quantity of the Range i.e. 50, 101, and 201, for each Ordering Period. The sum of all Ordering Period Evaluated Prices will be the Total Evaluated Price. In the case of Ordering Period 1, either the WITH FIRST ARTICLE or the WITHOUT FIRST ARTICLE prices will be used, as appropriate.

This solicitation requires that the offeror provide prices for varying quantity ranges for each Ordering Period. Should the offeror fail to provide prices for every range, the Government will evaluate the offer by using the lowest proposed price for the Ordering Period.

Evaluation of proposed prices shall include determining reasonableness and realism. Reasonableness is interpreted to mean that the price does not exceed what an ordinary prudent person in the conduct of competitive business would incur. Realism asks, "Does the proposal price accurately reflect the offeror's proposed effort to meet the program requirements and objectives?" An unrealistic or excessive price may preclude an offeror from award.

Price shall not receive an adjectival rating. The price evaluator(s) shall write a narrative, expressing in percentages the difference between total evaluated prices, highlighting any unusual and unexplained price variance (for the total or any individual year), which may suggest the possibility of a mistake or misunderstanding by an offeror. Any indication of unreasonable or unrealistic pricing will also be identified.

M.3 FINANCIAL CAPABILITY

M.3.1 Financial Capability will be rated using adjectival ratings. To do this, a financial analysis will be conducted for each offeror. This may include financial analysis of applicable major subcontractors and vendors. Major subcontractors and vendors are those where proposed costs/prices total at least \$500,000 in any given contract year. A review of a company's financial statements and any applicable outside data will be performed to determine the overall financial position of the company. Financial tools used in the analysis may include ratios, trends and available outside rating data. The result of the review will be a financial analysis report, which will include an adjectival rating from the following listing:

a. Satisfactory: The offeror's and major subcontractor's financial data reflect sufficient ability to perform the proposed effort with little risk of financial impairment. Proposal represents a low financial risk of failure.

b. Marginal: The offeror's and major subcontractor's financial data reflect some concern with their ability to perform the proposed effort. The company may face an above average risk of bankruptcy. Proposal represents a moderate financial risk of failure.

Examples of financial concern areas may include the following: Overall financial conditions reflect noticeable weakness in some areas. Some financial trends may be deteriorating. Cash flow may be tight. The ability to obtain funds outside the normal course of operations may be limited. Outside credit or financial ratings may be weak. Current credit facilities may be insufficient without additional credit. The capability to obtain new, or refinanced, loans may require above market interest premiums. The company may not be within its loan covenants.

c. Poor: The offeror's and major subcontractor's financial data reflect significant financial weakness and concerns, which is considered likely to impair their ability to perform the proposed effort. There is a strong risk of bankruptcy. Proposal represents a high financial risk of failure.

Financial Capability is an important consideration in the award decision; however, price may be controlling where an overall higher evaluated proposal is unaffordable. Similarly, the closer the ratings in the Past Performance and Financial Capability areas are between offerors, the more significant price becomes.

M.4 PAST PERFORMANCE

M.4.1 The government will focus its past performance on all aspects of contract performance. In evaluating your performance history, we will look at overall workmanship/quality, adherence to contract delivery schedules, and commitment to the customer satisfaction. Past Performance is an important consideration in the award decision; however, price may be controlling where an overall higher evaluated proposal is unaffordable. Similarly, the closer the ratings in the Past Performance and Financial Capability areas are between offerors, the more significant price becomes.

M.4.2 A significant achievement, problem, or lack of relevant data in any element of the work can become an important consideration in the source selection process. Therefore, offeror's are reminded to include all the relevant past efforts, including demonstrated corrective actions, in their proposals. The lack of meaningful relevant past performance records may result in an unknown performance risk rating.

M.4.3 Performance Risk Ratings are those risks associated with the offeror's ability to perform the solicitation requirements as indicated by the offeror's record of past and current relevant performance. Below are past performance adjectival, definition and criteria ratings:

Excellent-Essentially no doubt exists that the offeror will successfully perform the required effort based on their performance record. **Risk: Low**

Good-Little doubt exists that the offeror will successfully perform the required effort based on their performance record. **Risk: Low-Moderate**

Adequate-Some doubt exists that the offeror will successfully perform the required effort based on their performance record. **Risk: Moderate**

Marginal-Significant doubt exists that the offeror will successfully perform the required effort based on their performance record. **Risk: Moderate to High**

Poor-Extremely doubtful that the offeror will successfully perform the required effort based on their performance record. Risk: **High**

Unknown-The offeror has little/no relevant past meaningful performance risk prediction. **Risk: Unknown**

DAAE20-99-R-0221

PRICING SHEET

Converter Assembly

NSN: 1240-01-217-2334

ORDERING PERIOD 1, FY00 Estimated Order Qty = 308

Price WITH First Article

Order Quantity	Unit Price	Weight
50 - 100		25%
101 - 200		25%
201 and Over		50%

ORDERING PERIOD 1, FY00 Estimated Order Qty = 308

Price WITHOUT First Article

Order Quantity	Unit Price	Weight
50 - 100		25%
101 - 200		25%
201 and Over		50%

ORDERING PERIOD 2, FY 01 Estimated Order Qty = 127

Price WITHOUT First Article

Order Quantity	Unit Price	Weight
50 - 100		25%
101 - 200		50%
201 and Over		25%

ORDERING PERIOD 3, FY 02 Estimated Order Qty = 126

Price WITHOUT First Article

Order Quantity	Unit Price	Weight
50 - 100		25%
101 - 200		50%
201 and Over		25%

ORDERING PERIOD 4, FY 03 Estimated Order Qty = 166

Price WITHOUT First Article

Order Quantity	Unit Price	Weight
50 - 100		25%
101 - 200		50%
201 and Over		25%

ORDERING PERIOD 5, FY 04 Estimated Order Qty = 110

Price WITHOUT First Article

Order Quantity	Unit Price	Weight
50 - 100		25%
101 - 200		50%
201 and Over		25%

The Evaluated Prices will be calculated by summing the multiplication of each Order Quantity Unit Price by its respective Weight and the Minimum Order Quantity of the Range i.e. 50, 101, and 201, for each Ordering Period. The sum of all Ordering Period Evaluated Prices will be the Total Evaluated Price. In the case of Ordering Period 1, FY 00 either the WITH First Article or the WITHOUT First Article prices will be used, as appropriate.

PRICING SHEET
INSTRUCTIONS TO OFFERORS

1. ATTACHMENT 09 IS THE PRICE EVALUATION SPREADSHEET.
2. OFFERORS ARE TO FILL IN THE BLOCKS UNDER THE COLUMN "UNIT PRICE".
3. OFFERORS WHO FEEL THAT THEY ARE ELIGIBLE FOR WAIVER OF FIRST ARTICLE FOR ORDERING PERIOD 1 SHOULD PROVIDE WITH AND WITHOUT FIRST ARTICLE UNIT PRICES.
4. OFFERORS WHO CONDITION THEIR PROPOSAL TO SPECIFIC ORDERING QUANTITIES OR ORDERING PERIODS MAY BE REJECTED AS NON-RESPONSIVE.

CONTRACT DATA REQUIREMENTS LIST

DD FORM 1423 (MECHANIZED)

CATEGORY: MISC SYSTEM/ITEM: CONVERTER ASSEMBLY
TO CONTRACT/PR: P49ANAX4

1. SEQUENCE NUMBER	14. DISTRIBUTION	DRFT/REG/REPRO COPIES
2. TITLE OF DATA ITEM		
3. SUBTITLE		
4. DATA ITEM NUMBER		
5. CONTRACT REFERENCE		
6. TECHNICAL OFFICE	7. DD 8. APP 9. DIST STATEMENT	
	250 CODE REQUIRED	
10. FREQUENCY	11. AS OF DATE	15. TOTAL:
12. DATE OF 1ST SUBMISSION	13. DATE OF SUBSEQUENT SUBMISSION	
16. REMARKS		

1. A001	14. AMSTA-AR-ES	/ /
2. CONFIGURATION CHANGE CONTROL*	(ECALS)	/ /
3. ENGINEERING ACTIONS		
4. DI-CMAN-81554		
5. SECTION C		
6. AMSTA-AR-ES	7. NO 8. - 9. **	
10. ASREQ	11. ---	15. TOTAL 0/ 0/ 0
12. ASREQ	13. ASREQ	
16. REMARKS		

PREPARE ENGINEERING ACTIONS IAW DI-CMAN-81544 AND SUBMIT ELECTRONICALLY VIA ECALS WORLDWIDE WEB PAGE [HTTP://EDMD4.PICA.ARMY.MIL/](http://EDMD4.PICA.ARMY.MIL/). *DATA INFORMATION PACKET **DISTRIBUTION STATEMENT WILL BE ASSIGNED AND IMPLEMENTED BY THE DOD CONFIGURATION MANAGER. THE POC FOR ECALS IS LEE SADAUSKAS, AMSTA-AR-QAW, (973) 724-6626 LEES@PICA.ARMY.MIL.

APPROVED BY: STEPHEN J HANSEN, SDMO, AMSTA-AR-QAD DATE: 06/22/1999

Exhibit A