type file PURCHASE DESCRIPTION WORKSHEET MCBCL 4225/2 STOCK NO. SPECIFICATIONS 4546-00-781-5341 Heating element for use with water heater, electrical, immersion type, 240V/3000W, flange - 4 bott holes in corners, fl. gaskit. Dunot sub on volts Sa. indu and watts E.L. Unegand # TOA 2307 ETB 205-67B AAC-K MLC OPRI N Del attacted ing 3-17-04 Murly: 4540-00-058 6138 SHOP STORES NEW ITEM SELF SERVICE CENTER U/1 EA U/P 2.8.3 DESCRIPTION CHANGE DATE 99 Dec 82. TRAS INITIALS

limit if war inthe Terry Allane a 3000 4. Harden af with for a set many De martin St in and beer minter gasped . Real I Sud in a M A March Archel -- 4-4904 1-76 4 2387 Marriey: Anice Contractor Et 25.2 A real of the

ton 2307 hromalox 4510-00-781534/.

TypeTGA

1 7 40

water

heater elements

These elements are identical to the original Chromatox elements now in use in hundreds of thousands of water heaters of thousands of water heaters manufactured by RHEEM. A O SMITH. MOR-FLO. WAGNER. STATE STOVE. JACKSON. DUROMATIC. S R N. RUDD. AMERICAN-STANDARD

GTRF gasket included, how-ever if tank has recessed tank flanges, use TG27T gasket.

Volts	Watts	Catalog No. Stamped on Original OEM Element	Length Inside Tank	Catalog Number	Product Code No.
LOW W	ATT-DEN	SITY .			and the
240 240 240	750 1000 1250	1G1077 1G1107 1G1127	711/16 711/16 711/16 711/16	TGA-107 TGA-110 TGA-112	41163-5 41165-1 41167-8
240	1500	TG1157	711/16	TGA-1157	41169-4
240	2000	TG1207	10%	IGA-1207	41171-5
240	2500	TG2257	7%	IGA-2257	41173-1
240	3000	TG2307	815/16	1GA-2307	41174-0
240	3500	TG2357	9%	1GA-2357	41175-8
240	4000	TG2407	1111/16	1GA-2407	41176-6
240	4500	TG2457	1111/16	TGA-2457	41177-4
240	5000	TG2507	13%	TGA-2507	
240	5500	TG2557BX	11%	TGA-2557BX	41224-0
240	6000	TG2607BX	11%	TGA-2607BX	41179-0
120	1000	TG1107L	7 ¹¹ / ₁₆	TGA-110L	41164-3
120	1250	TG1127L	7 ¹¹ / ₁₆	TGA-112L	41166-0
120	1500	TG1157L	7 ¹¹ / ₁₆	TGA-1157L	41168-0
120	2000	TG1207L	10%	TGA-1207L	41170-
120	2500	TG2257L	7%	1GA-2257L	41172-

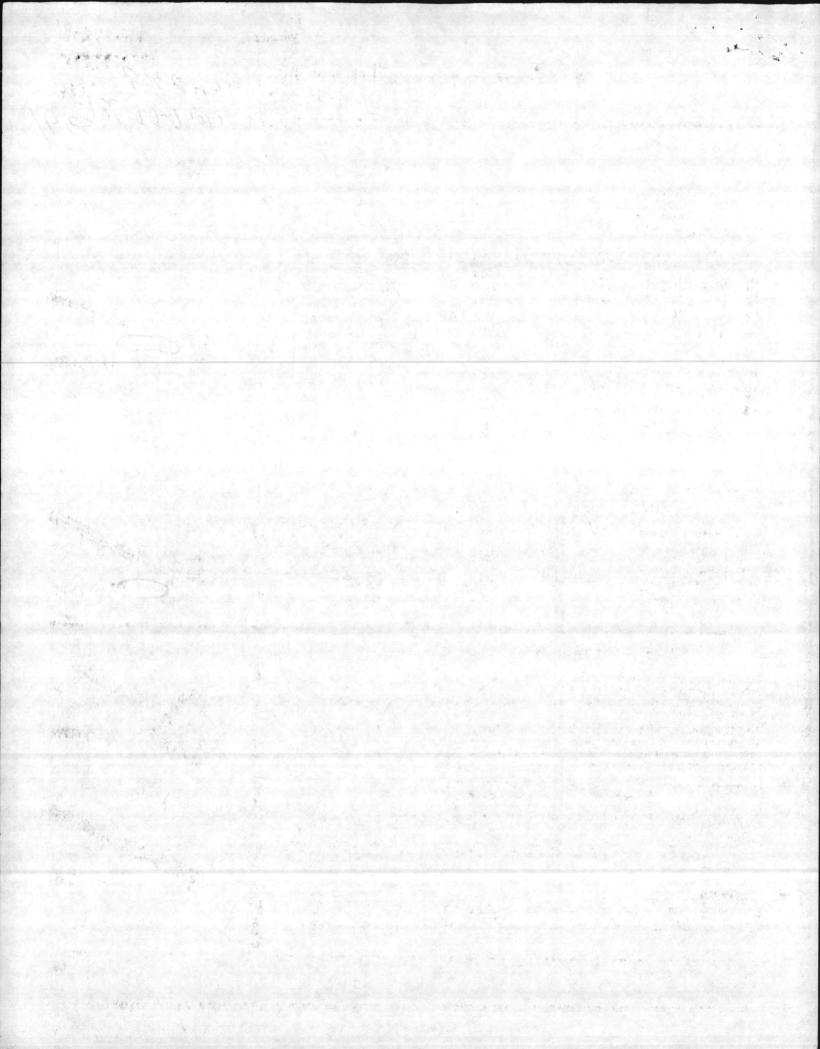
Special Voltage Units

HIGH W	VATT-DENS	SITY			6	
208	2000	TG1203	-7%	16.1203	41326 0	-
208	2500	TG1253	938	16-1253	41327-8	
208	3000	TG1303	10%	G-1303	41328-6	
208 208	3500 4000 *4500	TG1353 TG1403 TG1453	12%16 13%16 13%16	IG-1353 IG-1403 IG-1453	41329-4 41330-7 41331-5	
208	5000	1G2503	913/16	TG-2503	41332-3	
208	6000	TG2603	115%	TG-2603	41333-1	
480	2000	TG1203	7%	TG-1203	41337-4	
480	2500	TG1253	9%	TG-1253	41338-2	
480	3000	TG1303	10%	TG-1303	41339-0	
480	3500	TG1353	12%6	TG-1353	41340-3	
480	4000	TG1403	13%6	TG-1403	41341-1	
480	4500	TG1453	13%6	TG-1453	41342-0	
480	5000	TG2503	913/16	TG-2503	41343-8	
480	6000	TG2603	1156	TG-2603	41344-6	
480	9000	TG2907BX	1234	TG-2907BX	41345-4	

TGA, TGFR, TSFS Accessories

Description	Catalog No.	Product Code No.
Metal-reinforced Gasket	TG17-R	41181-1
Standard Gasket	TG27-1	41218-7
Rubber Gasket	TG8 TA	41182-0
Thermostat Bracket	TG11	41228-2
Bott	TG19 R	41222-4
Gasket	GIRF	41108 8
Gasket Kit Includes TG17- R. TG8-TA, GTRF. and four TG19-R	TGK	41160-0

		10
9	TG17-R	· · · · · · · · · · · · · · · · · · ·
9	TG27-T	Use with TGA & TSFS when tank has recessed tank flange.
9	TG8-TA	Use with all types when tank flange is twist lock type.
CED.	TG11	Use with all types.
	TG19-R	Use if original bolts are stripped or too short
	GTRF	Use with TGA and TSFS.



Chromalox

water heater elements

Volts	Watts	Catalog No. Stamped on Original OEM Element	Length Inside Tank	Catalog Number	Product Code No.
240	750	1GF 1077 ·	711/16-	TGFR-107	41300-8
240	1000	1GF 1107	711/16	TGFR-110	41301-6
240	1250	1GF 1127	711/16	TGFR-112	41302-4
240	1500	1GF 1157	71%6	TGFR-1157	41303-2
240	2000	1GF 1207	10%	TGFR-1207	41304-0
240	2500	1GF 2257	7%	TGFR-2257	41305-9
240	3000	1GF 2307	815/6	TGFR-2307	41306-7
240	3500	1GF 2357	9%	TGFR-2357	41307-5
240	4000	1GF 2407	111/16	TGFR-2407	41308-3
240	4500	TGF 2457	11 ¹¹ /16	TGFR 2457	41309-4
240	5000	1GF 2507	13%	TGFR 2507	41310-4
240	6000	1GF 2607	21 ¹¹ /16	TGFR 2607	41311-2
120	1000	1GF1107L	711/16	TGFR-110L	41316-3
120	1250	-TGF1127L	711/16	TGFR-112L	41317-1
120	1500	1GF1157L	711/16	TGFR-1157L	41318-0
120	2000	1GF1207L	10%	TGFR-1207L	41319.8
120	2500	TGF2257L	7%	TGFR-2257L	41320-0

Long life element is copper sheath, heavily tin-electroplated, ideal for stonelined tanks The built-in TGF gasket protects the flange from electrolytic action

Volts	Watts	Catalog No. Stamped on Original OEM Element	Length Inside Tank	Catalog Number	Product Code No.
240	1000	TSF1107	7%6	TSFS-1107	41150-4
240 .	1500	TSF1157	10%	TSFS-1157	41151-2
240	2000	TSF1207	135	1SFS-1207	41152-0
240	2500	TSF2257	934	TSFS-2257	41153-9
240	3500	TSF2357	134	TSFS-2357	41154-7
240	4500	1 TSF2457	13%	1SFS-2457	41155-5

Use TSFS in unusual water conditions such as high sul-phur content or to eliminate exceptional rusting. An especially long-life element, the flange has a stainless steel face plate and incoloy tubing GTRF gasket is included.

"Water Wizard" Alloy Sheathed Element

Copper sheathed water heater elements can be expected to fail in a short period of time when operating in free air (not covered with water) or when immersed in a heavy deposit of lime or sulphur. The latter condition is not unusual in many parts of the country.

The Chromalox "Water Wizard is a possible solution to this problem, since the sheath material is a nickel base alloy similar to the Chromalox range surface elements. It can operate indefinitely in free air and is less likely to overheat when immersed in mineral deposits.

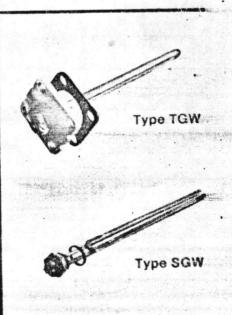
Volts	Watts	Length Inside Tank	Catalog Number	Product Code No.
Square F	lange			
240	4500	16%"	TGW 2457X1	41366-5
240	2000	83142"	TGW 2207	41367-3

Screw Ph	1			•
240	4500	16%"	SGW 2457X1	41267-0
240	2000	932"	SGW 2207	41365-7

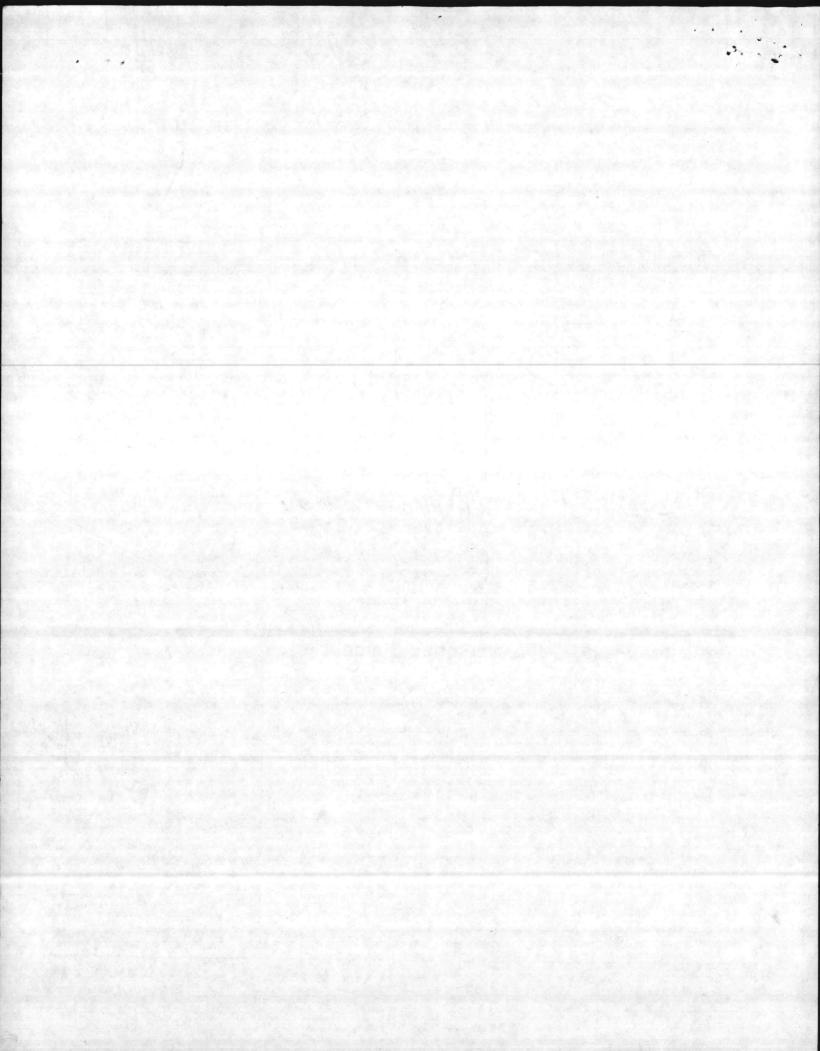
Several water heater manufacturers now use these types of alloy sheathed elements as original equipment. Available replacements are the 212 standard square flange (Type TGW) and the type SGW Screw plug elements which may also be used with Adapt-O-Matic Flanges (see page 46) for special mounting applications.



TypeTGER

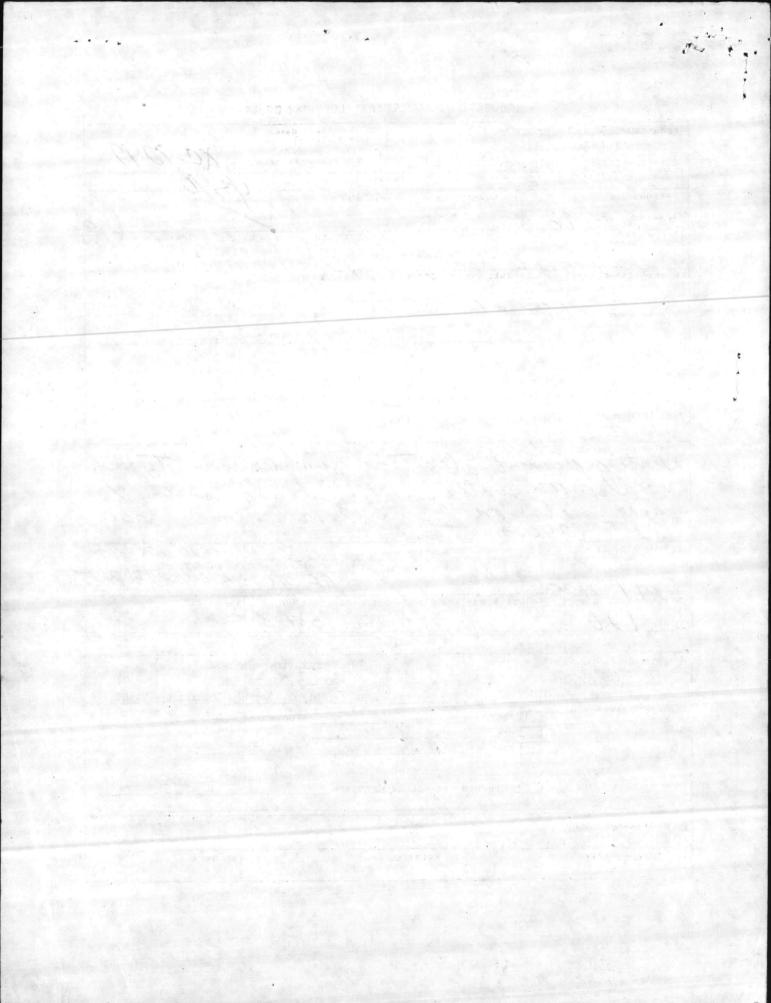


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Dolt holes Watts, 240.	vott	OTHER	Bol IF AL 14. CODE /PHO 21P/ 3	Cland t Cl DTHER, INDIC MA	icle L 45. ATE SOUR	with 4 , 3000 10 dta 8/1 140 dth 2/
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REQUEST FOR ASSIGNMENT/ADOPTION OF FSN



Management Data Response for NSN 4540-00-781-5341 Item Name: HEATING ELEMENT,ELECTRICAL,IMMER

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Characteristics Data for NSN 4540-00-781-5341 Item Name: HEATING ELEMENT, ELECTRICAL, IMMER -----

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MRC	REQUIREMENT STATEMENT	CLEAR TEXT REPLY
ABJT	TERMINAL LENGTH	0.500 INCHES NOMINAL
ABNR	HEAT QUANTITY	1
ABNS	WATT DENSITY RATING	55.0 PER SQUARE INCH SINGLE VOLTAGE
ABNT	CONDUIT OPENING SIZE	0.500 INCHES NOMINAL
ABRY	LENGTH	6.750 INCHES NOMINAL
AZQH	MAXIMUM WATTAGE RATING IN WATTS	3000.0 SINGLE VOLTAGE
вннк	ELEMENT QUANTITY	1
CQJX	NOMINAL THREAD SIZE	0.190 INCHES STUD
CQRN	THREAD QUANTITY	A 32.0 PER INCH STUD
CSBH	VOLTAGE IN VOLTS AND CURRENT TYPE	140 AC SINGLE VOLTAGE
FAAZ	PHASE	SINGLE SINGLE VOLTAGE
FREQ	FREQUENCY IN HERTZ	60.0
MATT	MATERIAL	COPPER SHEATH
THSD	THREAD SERIES DESIGNATOR	UNF STUD

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WENT A JAME ON WAS REPLACED S & D START LIMMT, JACISLIS, THENSIS, OVETABLE COMENT MAIL

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4540-00-781-534/

Page 2 of 3

3-17-04

Immersion

TTUH-CO

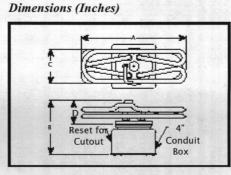
Food Equipment Water Applications

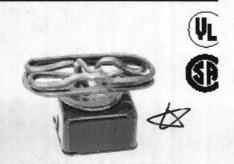
- **Bottom Mounted**
- Brass Flange
- Copper Sheath Elements
- 1 12 kW
- 120, 208, 240 and 480 Volt, 1 & 3 Phase
- Integral Low Liquid Thermal Cutout
- High Watt Densities (see Table)

Applications

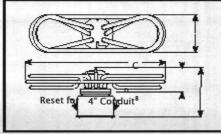
- Coffee Urns
- Steam Tables
- Kettles
- Humidifiers

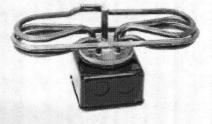
Note — Models above 25 Amp or 240V single phase, and all 3 phase models require a suitable magnetic contactor to interrupt the heater load, with the cutout connected for pilot duty. See the Controls section for





Dimensions (Inches)

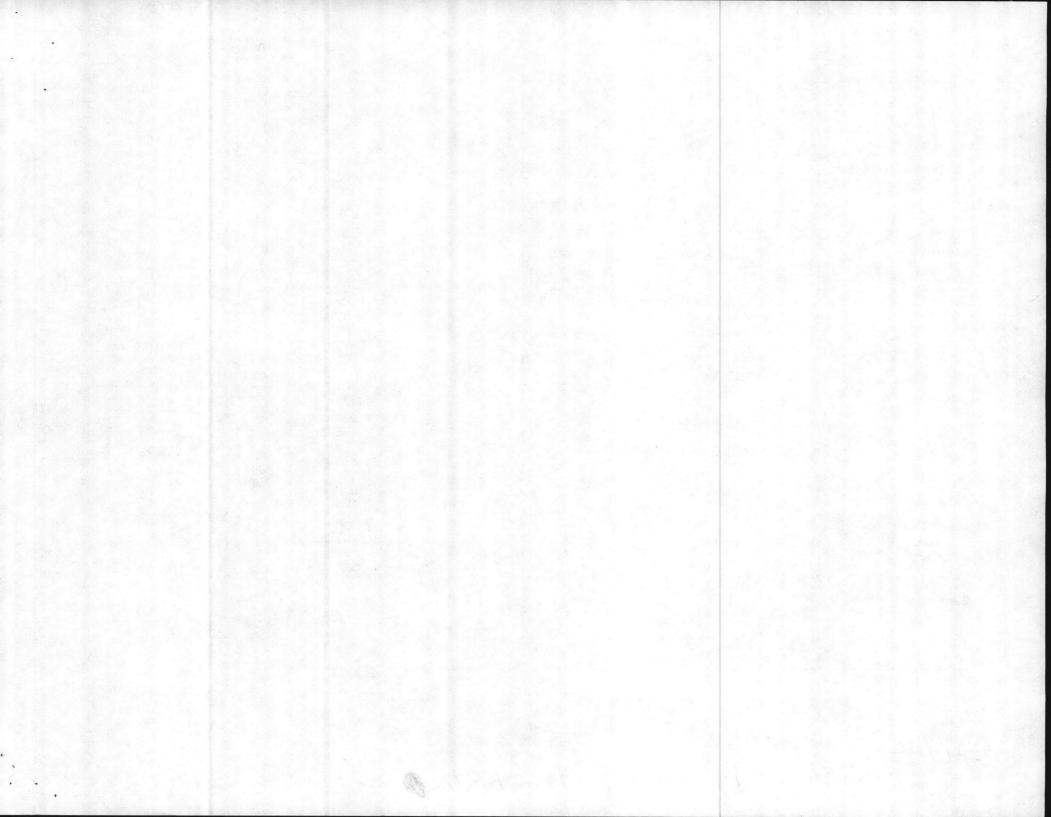




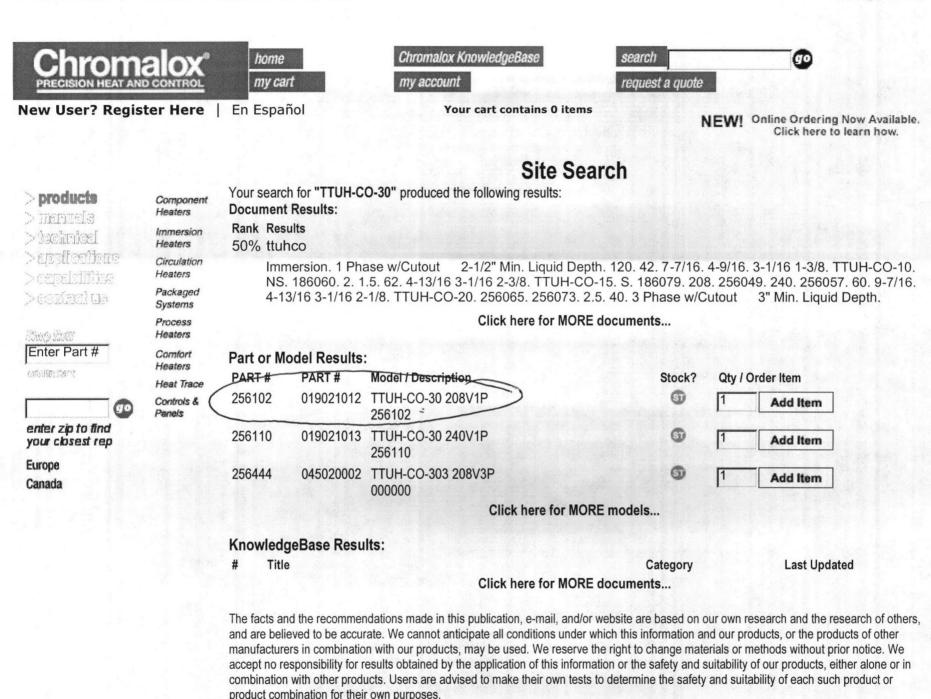
Specifications and Ordering Information

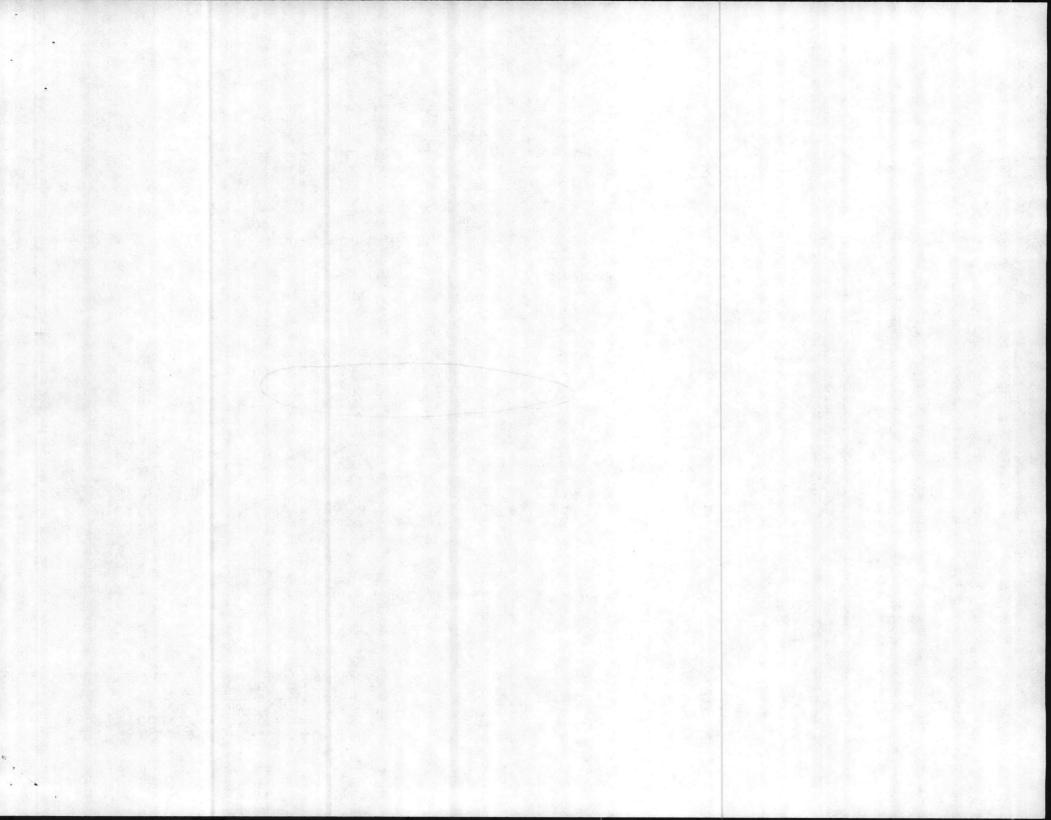
1.0				/2" Min. Li							
1	120	42	7-7/16	/2" Min. Li 4-9/16	3-1/16	and the second second second	TTUH-CO-10	NS	186060	3	2
1.5 1.5 1.5	120 208 240	62 62 62	7-7/16 7-7/16 7-7/16	4-13/16 4-13/16 4-13/16	3-1/16	2-3/8 2-3/8 2-3/8	TTUH-CO-15 TTUH-CO-15 TTUH-CO-15	S NS NS	186079 256049 256057	333	2 2 2
2 2	208 240	60 60	9-7/16 9-7/16	4-13/16 4-13/16		2-1/8 2-1/8	TTUH-CO-20 TTUH-CO-20	S S	256065 256073	33	2 2
2.5 2.5	208 240	40 40	6-3/4 6-3/4	4-13/16 4-13/16		2-1/8 2-1/8	TTUH-CO-25 TTUH-CO-25	S S	256081 256090	3 3	2 2
3 3	208 240	55 55	6-3/4 6-3/4	4-13/16 4-13/16	Contraction of the second second	2-1/8 2-1/8	TTUH-CO-30 TTUH-CO-30	S S	256102 256110	33	22
4 4	208 240	64 64	9-1/2 9-1/2	4-13/16 4-13/16	F	2-1/8 2-1/8	TTUH-CO-40 TTUH-CO-40	S S	256129 256137	4 4	2 2
5 5	208 240	70 70	12-3/4 12-3/4	5-3/8 5-3/8	4 4	2-11/16 2-11/16	TTUH-CO-50 TTUH-CO-50	S S	256145 256153	5 5	2 2
6	208	73	14-1/2	5-3/8	4	2-11/16	TTUH-CO-60	S	256161	6	2

http://www.chromalox.com/products/productinfo/en/TTUHCO.html?PopUp=true



Chromalox Precision Heat and Controls - Site Search

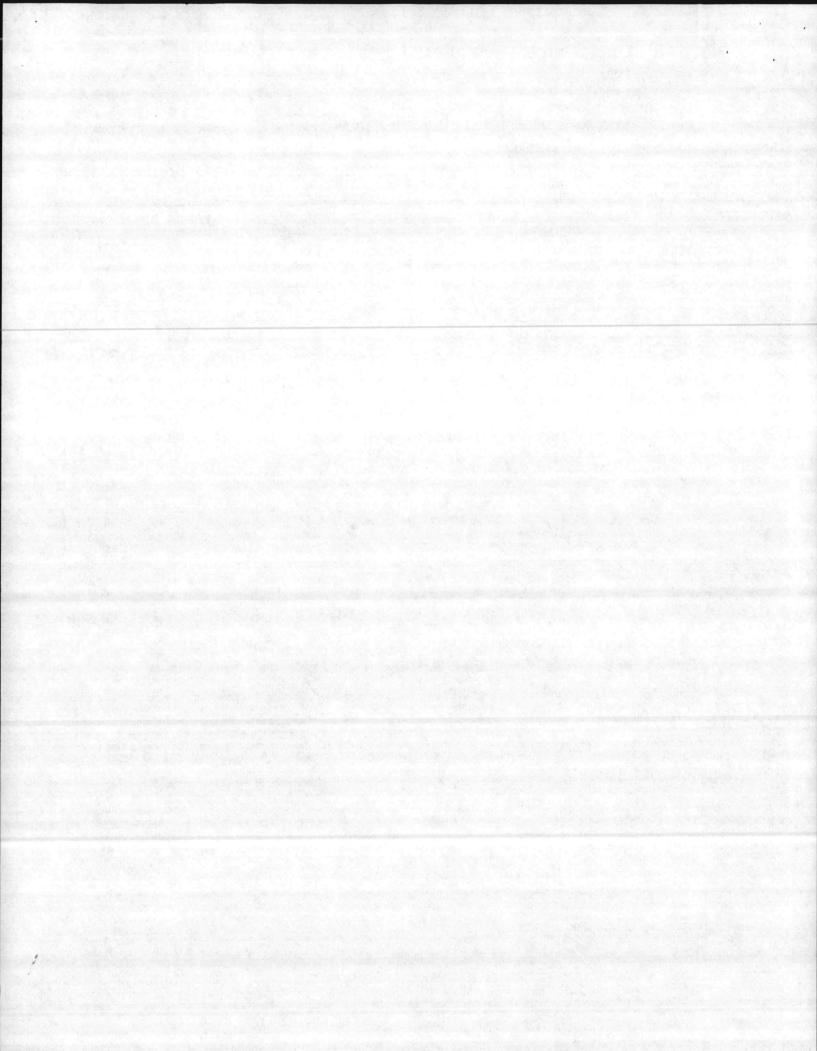




Uncle Sam's Club at the Lejeune First Choice SSC

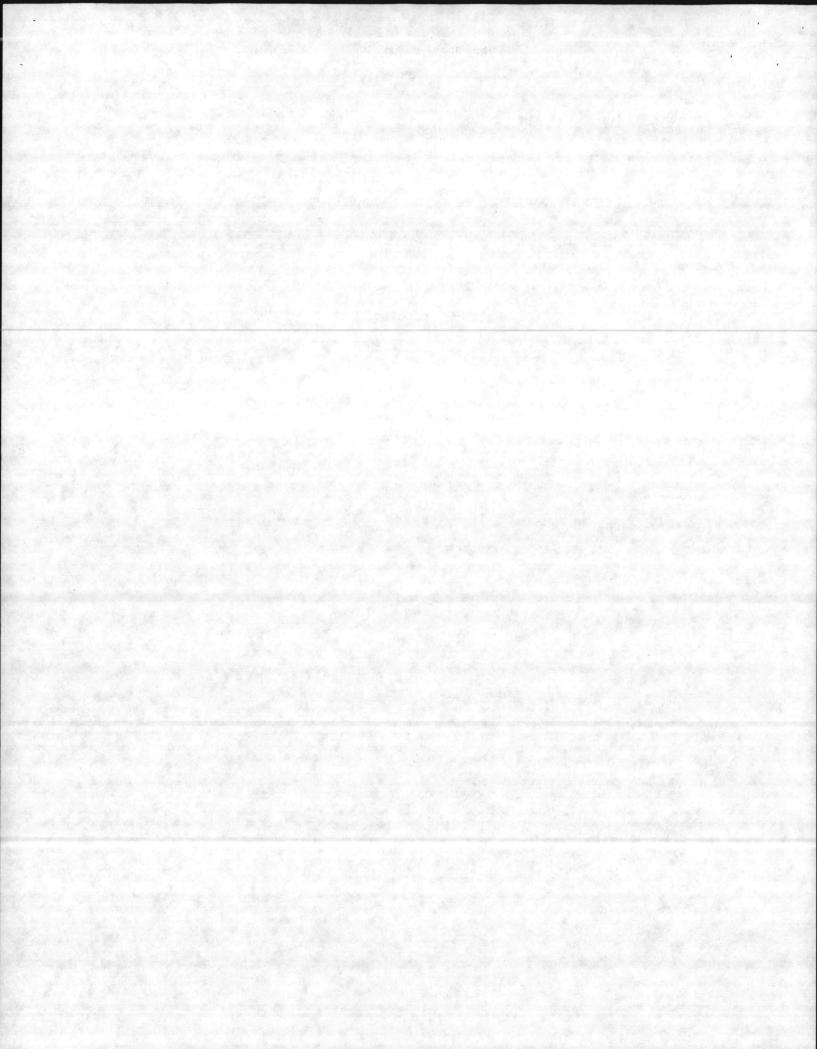
as of 03/17/2004 for the period between 01/01/2000 and 03/17/2004

	Description			
Qty	Date	Customer	Control Number	DocNbr/CCN
and a constant	HEATING ELE	MENT, ELEC, IM	MERSION TYPE, F/WA	
2	04/08/2003		From GSA	INITIALIZATION
6	06/24/2003		From GSA	4722803133A017
	2	Qty Date HEATING ELE 2 04/08/2003	HEATING ELEMENT, ELEC, IM 2 04/08/2003	QtyDateCustomerControl NumberHEATING ELEMENT, ELEC, IMMERSION TYPE, F/WA204/08/2003From GSA



Management Data Response for NSN 4540-00-781-5341 Item Name: HEATING ELEMENT, ELECTRICAL, IMMER PMI: U ADP: CC: N DML: A DI: ESDC: HMIC: N ENAC:

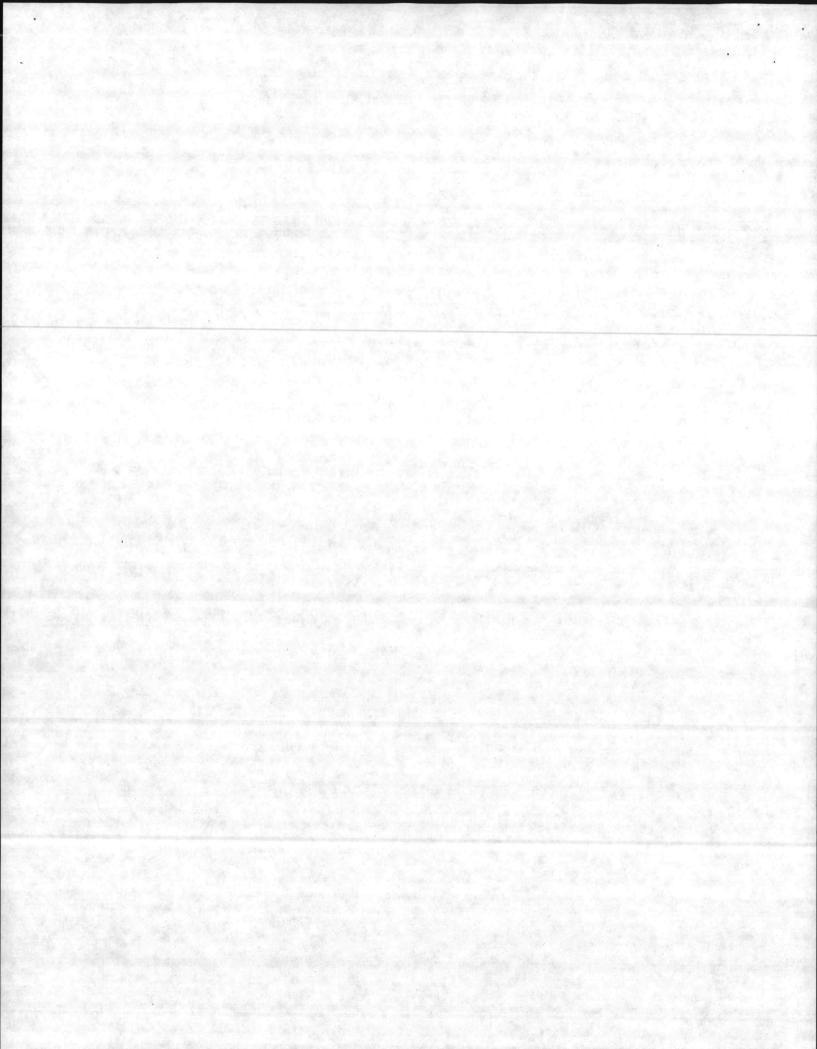
	SOS Phra				Unit Price (A MMYY onv Fac					USC
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DA	S9I	J	Z	EA	517.64			0	U	Z	J2200X-	A
DF	S9I	J	1	EA	517.64			0	U	N	SF9N	F
DM	S9I	J	Z	EA	517.64			0	U	z	1212	М
	S9I DISCO				517.64 LACEMENT			0	U		92	N



Part Number TTUHC0-30 TTUHC030 CAGE Item Name 65586 HEATING ELEMENT, ELECTRICAL, IMMER 65586 HEATING ELEMENT, ELECTRICAL, IMMER

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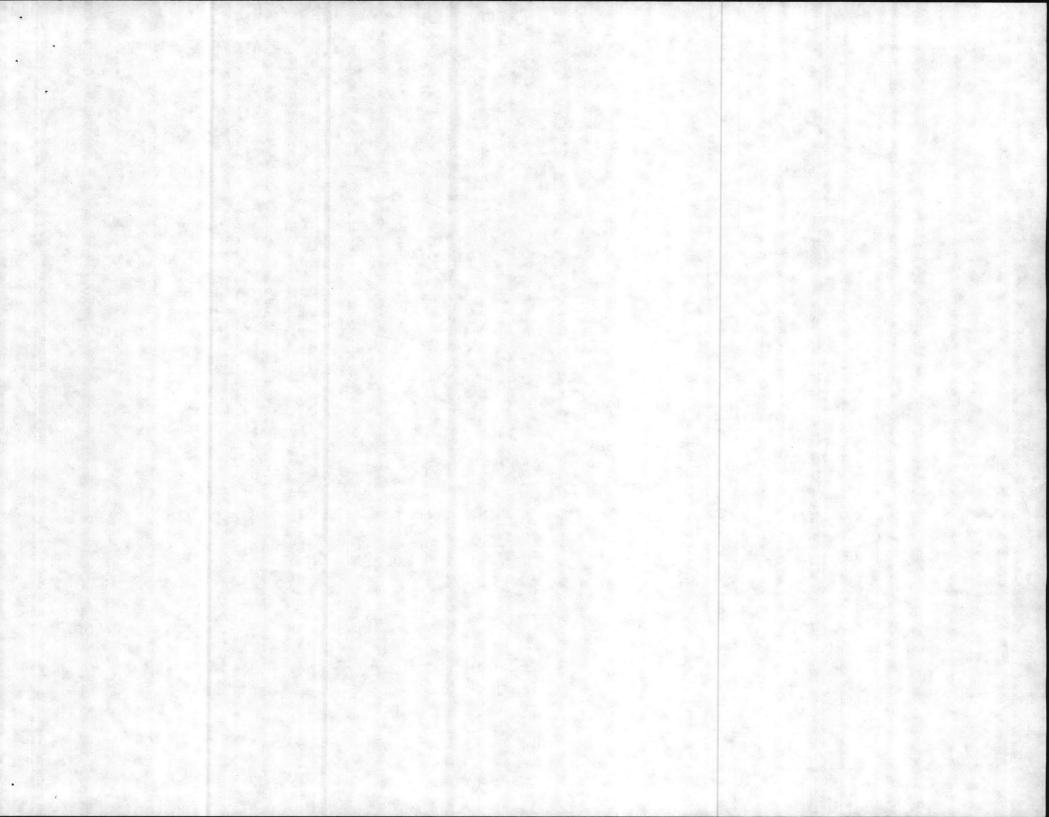


Reference Number Data Response for NSN 4540-00-781-5341

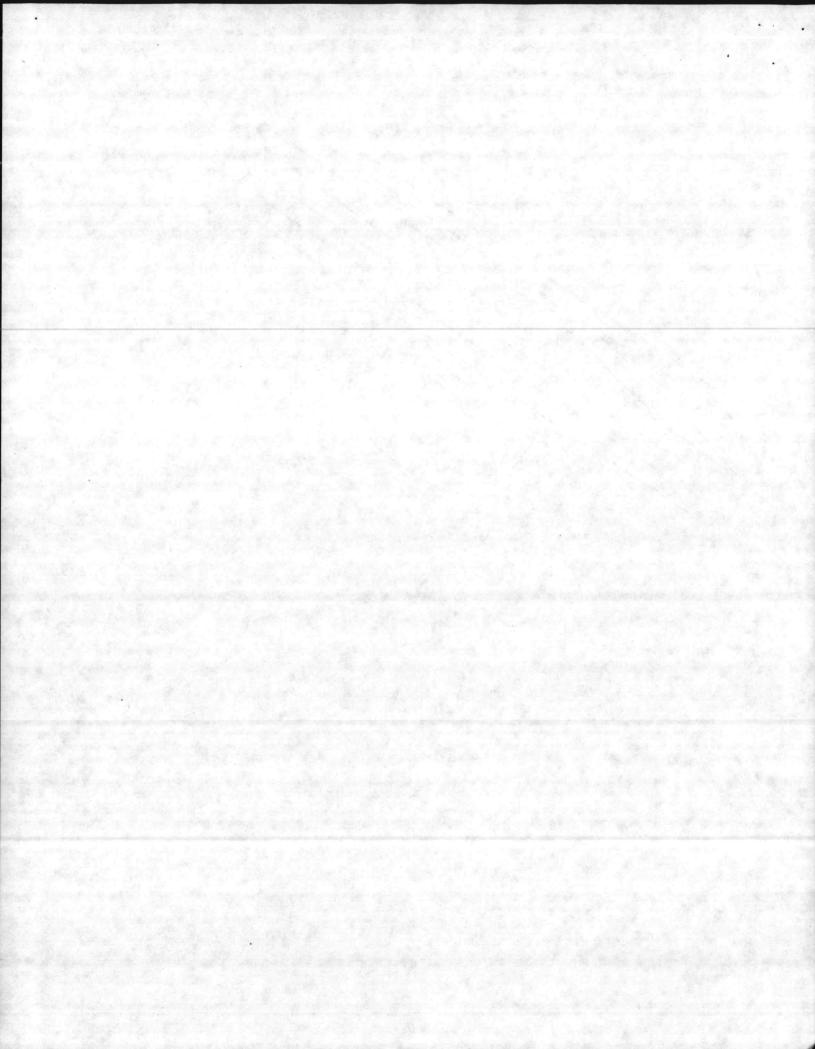
SADC

Item Name: HEATING ELEMENT, ELECTRICAL, IMMER TYPE II: 1 INC: 11327 HCC:

					I			D		
					S	RN	RN	Α	RN	
	Part Number		CAGE	SC	С	CC	VC	С	AAC	
-	TGA2307		65586	A	С	3	2	5	AX	
	TQA2307		65586							
	TTUHC0-30		65586	A	С	5	9	5	AX	
	256102		65586	Α	С	5	9	5	AX	



Representative Drawing Data for NSN 4540-00-781-5341 • Today's Date: 06 Feb 04 Effective Date: 1 Jan 2004 Item Name: HEATING ELEMENT, ELECTRICAL, IMMER Marine Corps



Uncle Sam's Club at the Lejeune First Choice SSC Inventory Item Report

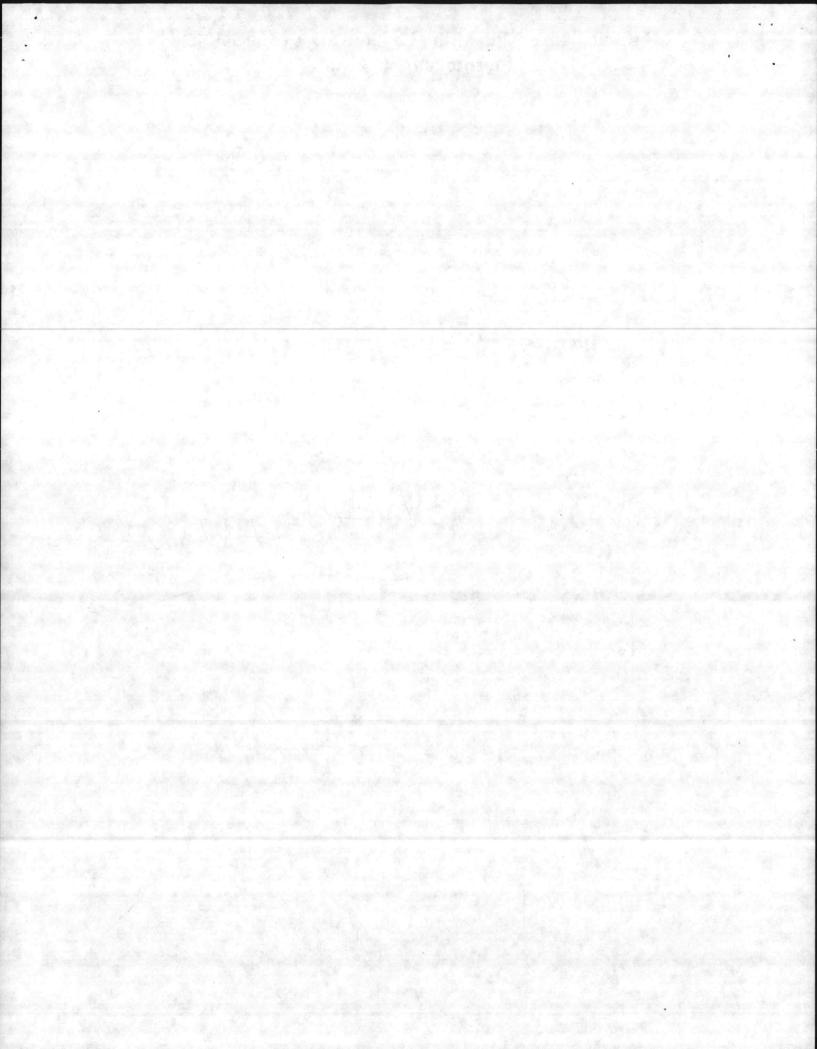
Stock Number: 4540-00-781-5341	Category:
Description: HEATING ELEMENT, ELEC, IMMERS	ION TYPE, F/WA
Unit Issue: EA Quantity On Hand:	8 Unit Price: 21.99
Management Code: E - Active Inventory	Source Code: D - DLA Item

Storage Locations: 650540AA

0707AB 0540 BB no 0707AD 0540BC - no 05 40 BA 0540 AC JOBA

4540011275702

4540016007945



type file PURCHASE DESCRIPTION WORKSHEET MCBCL 4225/2 SPECIFICATIONS STOCK NO. 45 40 01 COO 2945 Heatingelement, electrical, immersion type, used with water heater, tubular screw plug type, 113/4 in Ig inside hat water tonk, with round gaskit, 4500 watts, 240 volts, low watt density to be Chromalof PAN A#2745 to replace OEN SG2457 secattached lat 1/2/90 np Thermalink p/H D-245-KX SAPA 452000. 2200 Ant Come Chromaloy mfg. E. LiWiegand Div. Emorson Electric 7500 Thomas Block Puttsburgh Pa 15708. Hermalink Electro Therm Inc 14707 Baltimore ave Laurel MD 20810 Formerly Thermalink. SHOP STORES NEW ITEM U/1.EA U/P 7,30 DATE 2/19/8/ DESCRIPTION CHANGE SELF SERVICE CENTER VGB INITIALS

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NEW ITEM/DELETE NOTICE

MCBCL 4400 (REV 2-80)

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Section 1

10 Dec 1981 DATE:

#66

FROM: Work Management Section (Shop 31)

TO:

Officer in Charge, DSSC Division (Attn: Systems Management and Development Branch)

1. NSN/MFR PART NR		2. REFERENCE PUE	LICATION	3. MF	R MAKE AND MODEL OR EQ	UIP NR
4540 01 CUO 7 D-245-UX	945	Craven		T	hermalink	
4. UNIT PRICE 5	. UNIT O	FISSUE	6. 30 DAY USAGE		7. DATE REQUIRED	8. ISSUE PT REQUIRED
\$7.30			····· 3·· ···	A Star		. 65
9. DESCRIPTION Thermali Chromolog I OEM	94:	2745			Richard E. Brow	m
GEM	30-	-2451	Section II		Maint. "Schedul DATE CONTROL NO	12/16
ROM: Officer in Charge,	System	s Management and	Development Bra	nch		
PPROVED // EMARKS:	DISAPI	PROVED /	CATALOG 2	7		RESEARCH
			SIGNAT	URE:		
FROM: Officer in Charge, O: Officer in Charge (Attn: Systems M	, DSSC			Branch	DATI	DEC 20 2 12 22
EA 1	U/P		SA	0	SSRIC	DEMIL A.
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TECHNICAL & RESEARCH BASE MATERIAL BATTALION CAMP LEJEUNE, N.C.

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NR

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NEW ITEM/DELETE NOTICE

MCBCL 4400 (REV 2-80)

Section 1

DATE: 10 Dec 1981

FROM: Work Management Section (Shop 31)

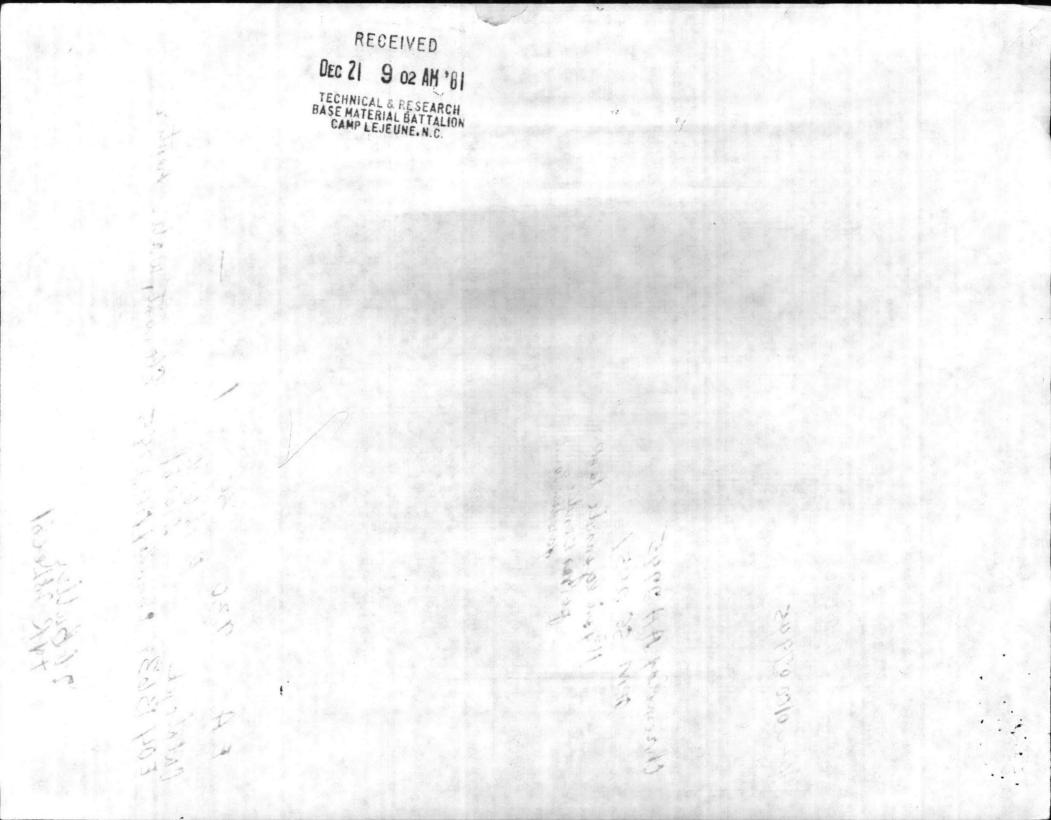
TO: Officer in Charge, DSSC Division

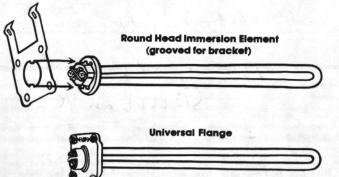
(Attn: Systems Management and Development Branch)

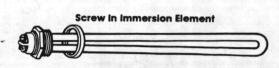
454001c007 D-245-UX	945	2. REFERENCE Craven	PUBLICATION		MAKE AND MODEL OR EC	UIP NR
4. UNIT PRICE	5. UNIT (OF ISSUE	6. 30 DAY USAG	E	7. DATE REQUIRED	8. ISSUE PT REQUIRED
\$7.30		EA	3		ASAP	. 65
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EMARKS:			SIGN	ATURE:		Dr. MA SO I
FROM: Officer in Char FO: Officer in Char (Attn: Systems	ge, DSSC				DAT	EVAN FER
		<u></u>	MEC	SAC	SSRIC	DEMIL
U/I	U/F	2				

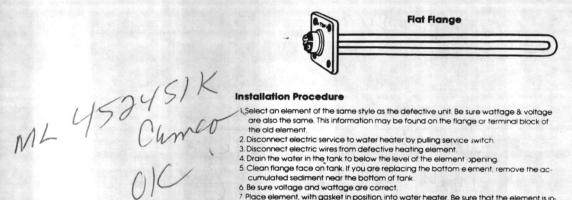
VbBuller TAR 25Dec81

SIGNATURE:









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6. Be sure voltage and wattage are correct. 7 Place element, with gasket in position, into water heater. Be sure that the element is installed so that prongs are in a vertical position. The flange will be marked either "Top"

or "UP." Be sure that the element is installed so that the end of the flange that is stamped "TOP" is at the top, or that one of the "UP" arrows is pointing up. 8. Mount element assembly in place by using bolts. Bring bolts to finger tight position be-fore applying full torque for final tightening. DO NOT APPLY FULL TORQUE ON JUST ONE BOLT. This may cause distortion of flange and may result in leaks 9. Fill the tank with water. Check for leaks around flange.

- 10. Be sure all air is purged from the tank by opening hot water faucet until water flows smoothly.
- 11. Connect electric lines to heater element.
- 12. Replace insulation around and over elements and replace the plate
- 13. Turn on electric service switch.

CAUTION: Do Not Turn On Electricity Unless Elements Are Completely Immersed In Water. Doing So Will Void The Warranty

PROBLEMS AND ANSWERS

PROBLEM: HUMMING	
Element installed with prongs in horizontal position	Install with prongs in vertical position See #7
Excessive coating of lime scale	Clean element periodically.
PROBLEM: LEAKING	
Worn out gasket	Replace with new gasket.
PROBLEM: BURN OUT	
Element not immersed in water while in operation	Always operate while completely immersed. Must be replaced.
Open circuit due to electrical storm	No solution - must replace element.

GUARANTEE: All Camco Elements are guaranteed against defects in workmanship and materials.

CAMCO MANUFACTURING, INC. GREENSBORO, NORTH CAROLINA

1M452YSIK. H 4500 Watt 240 V Screwmikat

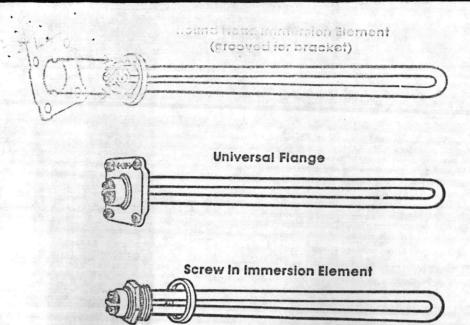
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R78 4624 4500W 240V 82 47

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	AD FORM 36, JULY 1966 SERVICES ADMINISTRATION C. REG. (41 CFR) 1-16.101	CONTINUATION SHEET	REF. NO. OF DOC. BEING CO		PAGE CF
JF OF	FEROR OR CONTRACTOR	21 PLUMBING & ELECTRIC SUPPLY	<u>M67001-84-м</u> -	-8510	2
ITEM NO.	ONSLOW WHOLESALE	LUMBING & ELECTRIC SUPPLY	0		en heredog to reader
TIEM NO.		SUPPLIES/SERVICES	QUANTITY DIT		AMOUNT
0001	USED/WATER HEATE 11-3/4" LG INSID GASKET.		11 EA	6.40	70.4
0002	ELECTRICAL, IMME SQ. FLANGE-4 BOL	/MMLV65 FOR USE WITH WATER HEATER, RSION TYPE, 240V/3000 W, 2-1/2" T HOLES IN CORNERS, INDUSE SQ. OT SUB ON VOLTS & WATTS.	27 EA	4.75	128.2
0003	M67001-4097-3563 4730-00-C00-1490 ELBOW, PIPE, 45 1 C.I. OR M. I. BLA		36 EA	3.75	135.0
0004	M67001-4095-0191 4730-00-246-5460 TEE, PIPE, 1-1/2 CAST IRON, BLACK, WEIGHT.	MMLV75 X 1-1/2 X 1" NPT/F, REDUCING 125 PSI STEAM, STANDARD	6 EA	2.85	17.1
0005	M67001-4097-0177/ 4730-01-016-2533 SPUD, WATER CLOSE BRASS, W/GASKET A JONES MFGR. #T-20	T, 1 X 3/4" NPT, REDUCING, ND FRICTION RING.	16 EA	2.95	, 47.2
0006	M67001-4095-0192/ 4730-00-C00-4275 TEE, PIPE, 1-1/4 C.I. OR M.I., BLA	MMLV75 X 1-1/4 X 3/4" NPT/F, REDUCING CK 250 PSI STEAM, EXTRA HEAVY.	8 EA	2.68	21.4
	M67001-4095-0197/ 4730-00-C00-1311 TRAP, STEAM, INVE AND BODY. STAINLE	MMLV75 RTED BUCKET TYPE, CAST IRON CAP SS STEEL WORKING PARTS, WITH D OUTLET, SIZE 3/4" NPT/F, SET PSI.	8 XEAU	1047.50 10 10 10 10 10 10 10 10 10 10 10 10 10	380.00

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IMPORTANT READ AND UNDERSTAND FAR CLAUSE 52.212-10 BEFORE PROCESSING THIS ORDER. IMPORTANT READ AND UNDERSTAND FAR CLAUSE 52.212-10 BEFORE PROCESSING THIS ORDER. INQUIRIES REGARDING THIS ORDER SHOULD BE MADE TO ORDER CONTROL DESK /919-451-2390 SEE PAGE #2 (PLUS ANY ADDITIONAL PAGES), for listing of items Is torat SEE PAGE #2 (PLUS ANY ADDITIONAL PAGES), for listing of items Is torat INSPECTED Is torat Statement INSPECTED ACCEPTED AND CONCORMS TO THE CONTRACT Is torat DATE SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE Is correct of good for generate Is and unit teenerate DATE SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE Is correct of good for generate Is and unit teenerate DATE SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE Is correct of good for generate Is and unit teenerate DATE SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE Is and unit teenerate Is and unit teenerate DATE SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE Is and unit of correct for Is and unit teenerate DATE SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE Is and unit teenerate Is and unit teenerate DATE SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATI			CHEDULE OF SUPPLIES/SERVIC	req	Gonatin		23.
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Installation Procedure

- Select an element of the same style as the defective unit. Be sure wattage & voltage are also the same. This information may be found on the flange or terminal block of the old element.
- 2. Disconnect electric service to water heater by pulling service switch.
- 3. Disconnect electric wires from defective heating element.
- 4. Drain the water in the tank to below the level of the element opening.
- 5. Clean flange face on tank. If you are replacing the bottom element, remove the accumulated sediment near the bottom of tank.
- 6. Be sure voltage and wattage are correct.
- 7. Place element, with gasket in position, into water heater. Be sure that the element is installed so that prongs are in a vertical position. The flange will be marked either "Top" or "UP." Be sure that the element is installed so that the end of the flange that is stamped "TOP" is at the top, or that one of the "UP" arrows is pointing up.
- 8. Mount element assembly in place by using bolts. Bring bolts to finger tight position before applying full torque for final tightening. DO NOT APPLY FULL TORQUE ON JUST ONE BOLT. This may cause distortion of flange and may result in leaks.
- 9. Fill the tank with water. Check for leaks around flange.
- 10. Be sure all air is purged from the tank by opening hot water faucet until water flows smoothly.
- 11. Connect electric lines to heater element.
- 12. Replace insulation around and over elements and replace the plate.
- 13. Turn on electric service switch.

CAUTION: Do Not Turn On Electricity Unless Elements Are Completely Immersed In Water. Doing So Will Void The Warranty.

PROBLEMS AND ANSWERS

PROPLEM: HUMMING	
Element installed with prongs in norizontal position	Install with prongs in vertical position. See #7.
Excessive coating of lime scale	Clean element periodically.
PROELEM: LEAKING	
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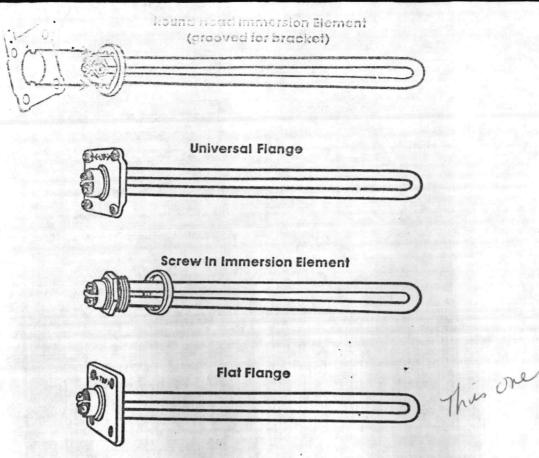
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STOCK# 02580 NO. IML452SIK 4500 WATT 240 VOLT SCREW IN KIT

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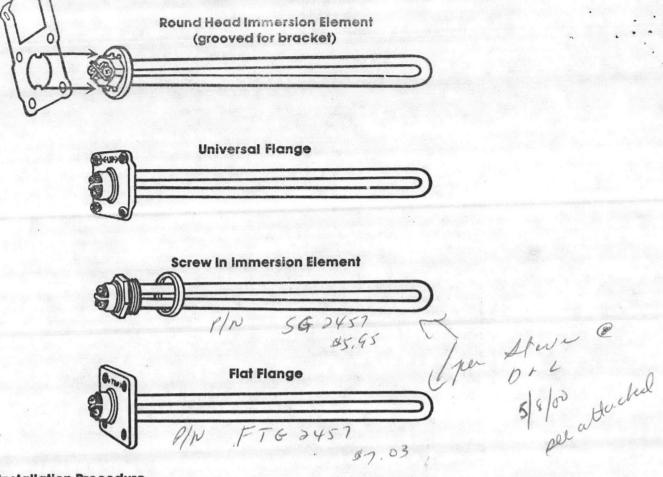
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STOCK# 02580 NO. IML452SIK 4500 WATT 240 VOLT SCREW IN KIT





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Element installed with prongs in horizontal position	Install with prongs in vertical position See #7.
Excessive coating of lime scale	Clean element periodically.
PROBLEM: LEAKING	
Worn out gasket	Replace with new gasket.
PROBLEM: SURN OUT	
Element not immersed in water while in operation	Always operate while completely immersed. Must be replaced.
Open circuit due to electrical storm	No solution - must replace element.

GUARANTEE: All Camco Elements are guaranteed against defects in workmanship and materials.

FINANCIAL BRANCH (BPA SECTION) Direct Support Stock Control Assistant Chief of Staff, Logistics Camp Lejeune, North Carolina 28542-5000

> 4200 17 Aug 90

From: Financial Branch, BPA Section Tech & Research Branch To:

CHANGE IN TECH DATA; FORWARDING OF Sub.j:

1. The following information is forwarded for possible change(s) as a result of a recent buy for LSN/NSN 4540-01-C00-7945.

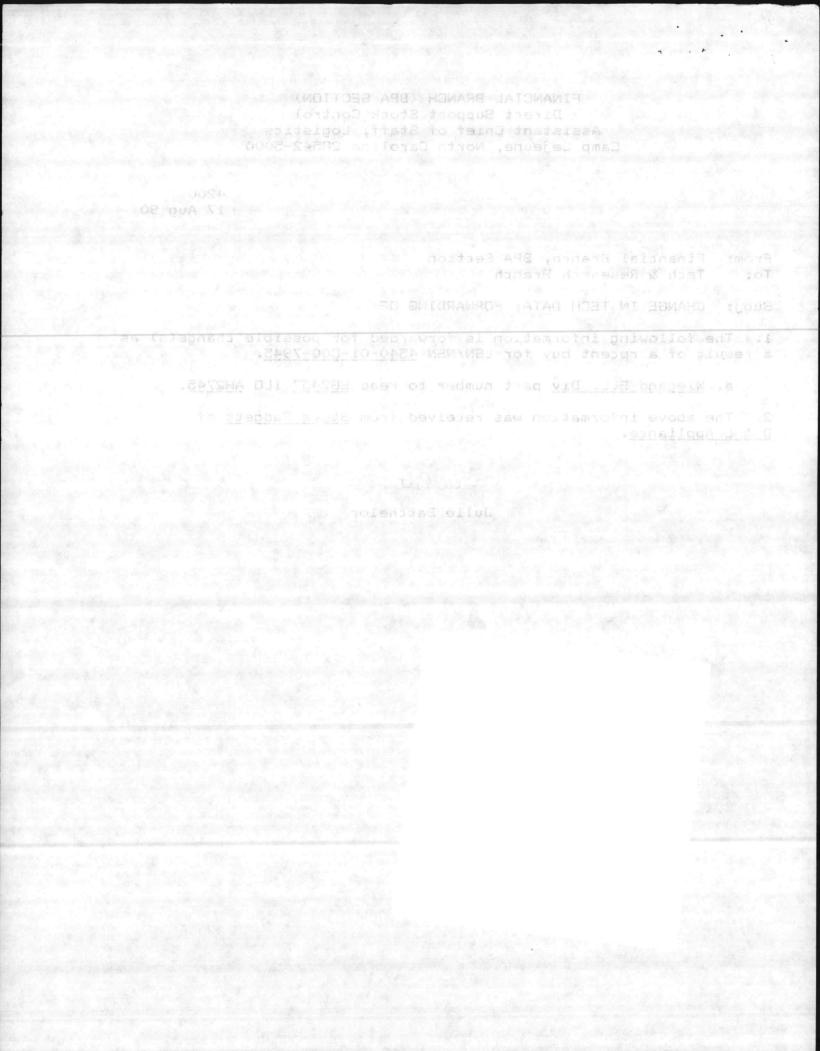
a. Wiegand E.L. Div part number to read SG2457 ILO AH2745.

2. The above information was received from Steve Padgett of D & L Appliance.

Julie Batchelor

Julie Batchelor

13-99-1527 DAL 0334



FINANCIAL BRANCH (BPA SECTION) Direct Support Stock Control Assistant Chief of Staff, Logistics Camp Lejeune, North Carolina 28542-5000

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From: Financial Branch, BPA Section To: Tech & Research Branch

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Julie Batchelor

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FINANCIAL BRANCH (BPA SECTION) Direct Support Stock Control Assistant Enter of Staff, Logistics Camp Lejeune, North Carolina 28562-5000

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From: Financial Branco, BPA Section To: Tech & Research Branch

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· , Company Name and Address: GRAINGER W W INC 333 KNIGHTSBRIDGE PKY K206 IL 60069 Telephone: 708-913-8333 LINCOLNSHIRE

UNITED STATES FORMERLY IN CHICAGO IL	Telephone:	708-913-8333
RPLM Code: 4	ASSOC Code:	25795 AFFIL Code:
Size: E Primary Business: K Type of SIC Codes:	Business:	N Woman Owned: N
CAGE Code: 70334 Status: A Type: A	CA0:	S1403A ADP: SC1002
Company Name and Address: ALTER HARRY CO THE DIV OF T E C 17725 VOLBRECHT		
LANSING	IL 60438	-1555

IL 60438-1555 Telephone: 708-418-3062 UNITED STATES . FORMERLY IN ELMHURST IL ASSOC Code: 70334 AFFIL Code: RPLM Code: Size: A Primary Business: J Type of Business: N Woman Owned: N SIC Codes:

Characteristics Data for NSN 4540-01-264-9390 Item Name: HEATING ELEMENT, ELECTRICAL, IMMER

rcem	Name: HEATING EECHENT, EECONTO	·
MRC	REQUIREMENT STATEMENT	CLEAR TEXT REPLY
NAME AAQL ABHP ABJA ABNR	ITEM NAME BODY STYLE OVERALL LENGTH ELEMENT RADIATION SPECTRUM HEAT QUANTITY	HEATING ELEMENT,ELECTRICAL,IMMER 31 TUBULAR, SCREW TYPE ANY ACCEPTABLE NONINFRARED 1 2

Characteristics Data for NSN 4540-01-264-9390 Item Name: HEATING ELEMENT, ELECTRICAL, IMMER

MRC	REQUIREMENT STATEMENT	CLEAR TEXT REPLY
ABNS ABRY AZQH	WATT DENSITY RATING LENGTH MAXIMUM WATTAGE RATING IN WATTS	NOT RATED SINGLE VOLTAGE 11.750 INCHES NOMINAL 4500.0 SINGLE VOLTAGE
BHHK CQJX CQRN CSBH	ELEMENT QUANTITY NOMINAL THREAD SIZE THREAD QUANTITY VOLTAGE IN VOLTS AND CURRENT TYPE	1 1.000 INCHES SCREW 11.500 PER INCH SCREW 240.0 AC SINGLE VOLTAGE
FAAZ FREQ MATT	PHASE FREQUENCY IN HERTZ MATERIAL	SINGLE SINGLE VOLTAGE 60.0 COPPER ALLOY SHEATH

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5/8/00 09-00-0239 (Longley) 5.93 Delivered on 3/3./00 22-00-0126 (D+4) 5.95 not read yet. 5/8/00 - changed puice to 5-55 was showing 55.60 on ansent posture 5/9/00 - changed pure buch to 59.60 Toni is running reversals for sours. 5/8/00 - added screw-in type + Do NOT SUB PIN- 562457- is screw in type PIN - FTG 2457 - glat glange per steve @ D+L

