

# Film-Tech

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# EPRAD

In-Car Heaters for Drive-Ins

## PARTS LIST

EPRAD, INC.

2541 Tracy Road

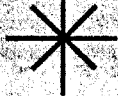
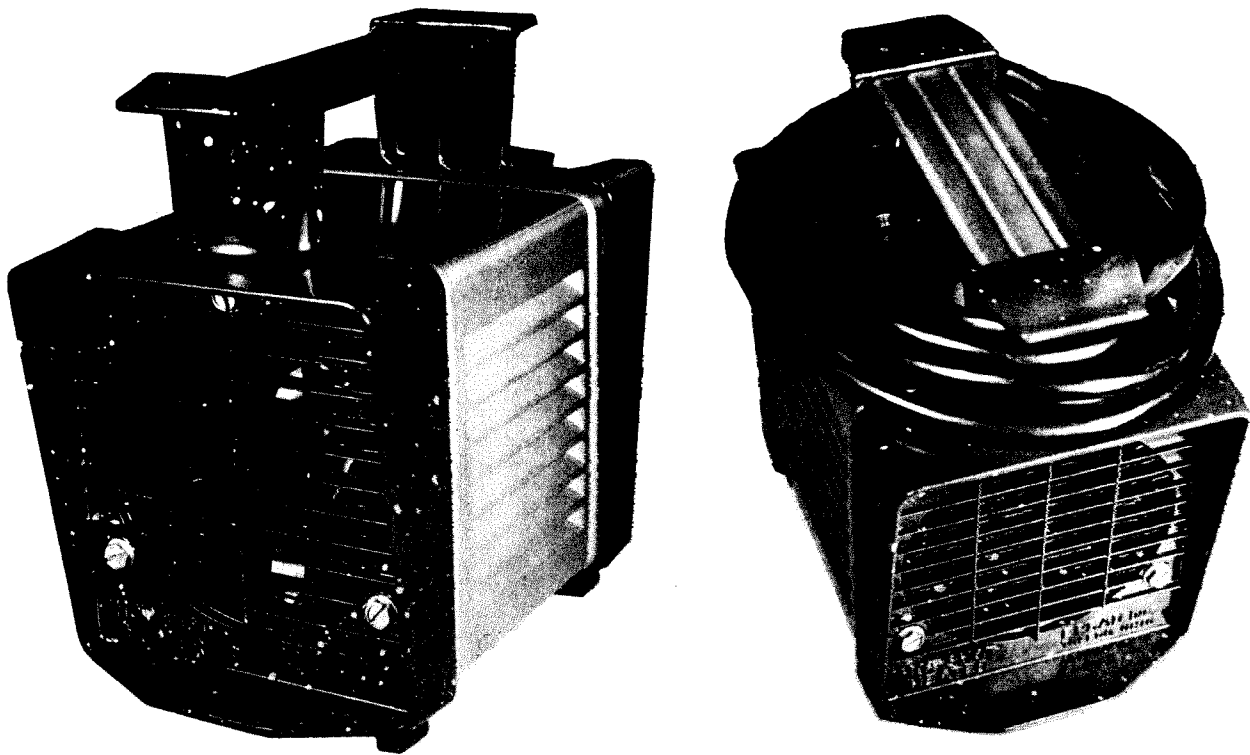
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**EPRAD**

PRODUCTS OF EXCELLENCE

NEW  
SUPER HOTSHOT HEATERS

## NEW SUPER HOTSHOT HEATERS

## DESCRIPTION:

*U.S. Patent No. 4,070,111*  
The New Super Hotshot Heaters have newly designed castings and handles. The result is astonishing. Whereas the earlier EPRAD Hotshot Heaters delivered more hot air where it was needed, than any other on the market, the NEW Hotshot Heaters have actually achieved a further 12% increase in output from the same fan and element.

This was done through intensive research into the characteristics of airflow through heater housings. Results were translated into superbly engineered castings. The painstaking work paid off for you. Here is a heater delivering more comfort for your audience than you can give them with any other . . . and it does that without blowing air faster to create unpleasant hot spots and drafts or noise.

At the same time, the new extruded, tough aluminum alloy handle is more comfortable to grasp and gives better control. Your patron is less likely to have the heater swing in his fingers and hit his car, or damage the heater. He is less likely to drop it when replacing it on the post.

All this, over and above the original toughness that withstands being dropped or run over better than others. Yet it's as good looking as you expect of an EPRAD product. It's contemporary . . . it looks as efficient as it actually is.

## APPLICATION:

For all drive-in theatres, restaurants, camping or marine use. Very compact design takes less space. Primarily designed for use with EPRAD Junction Boxes, the heaters are often used to replace other makes.

**EPRAD**

INCORPORATED

Box 4712 • 23 West Woodmill  
Toledo, Ohio 43620 • (619) 243-3100

#### ADVANTAGES:

**HOTSHOT HEATERS** have proven their worth to countless exhibitors all over the country for years who demand high performance as well as low maintenance. **HOTSHOTS** have allowed hundreds of drive-in theatres to remain open year 'round. Heaters are "business builders" and should be placed in use whenever temperature is expected to drop below 50 degrees.

For those situations where the heaters are passed out to vehicles by the cashier (or carhop) and heater tags distributed, the light weight, compact, and yet extremely serviceable unit is so mobile that handling and storing is never a problem. The cord can be wrapped around the handle, and heaters can be stacked one above the other.

**EPRAD** has for many years operated a unique heater repair service during the summer months of May, June, and July, so that the units will be returned to the exhibitor in plenty of time for the winter months. This low cost repair and test service is available for \$1.50 per heater, plus required parts.

#### SPECIFICATIONS:

Super Hotshot Heaters, either Golden or Standard, available in 1,000 and 750 watts: 240, 208, 120 volts; 600 watts: 240, 208 volts only. Furnished with either straight or coiled cord, with or without plug. (Check **EPRAD** Catalogue for additional information.)

Suitable for both indoor and outdoor use. Many models are listed by Underwriters Laboratories, Inc., and C.S.A. approved. All structural parts of the heaters are manufactured of stainless steel and aluminum to ensure a low operating cost. The thermostat featured on certain models shuts off the heating element when the car is warm, thereby saving electric power costs and contributing to patron comfort. The exclusive design of the Hotshot keeps the motor itself cool, circulates the hot air to the patrons, but does not re-circulate its own heat. The coils do not overheat. The heating element (famous General Electric Inconel Calrod) and the motor, especially weather-proofed, are exclusive with **EPRAD**.

#### FINISH: GOLDEN SUPER HOTSHOT HEATER (as illustrated):

End castings: Silicone Paint—Brick Red With Splatter Gold

Cage: Gold Enamel

Handle: Gold Anodized Aluminum

**STANDARD SUPER HOTSHOT HEATER** (not illustrated): Unpainted (all external parts are aluminum, handle anodized).

#### ACCESSORIES (not included):

**HEATER JUNCTION BOXES** (available in Deluxe molded fibreglass, or in galvanized steel), with or without:

- a. Hangers
- b. Fuses
- c. Terminal Strips
- d. Receptacles

Post Hanger Brackets for mounting separately on post, holding 2 heaters (#22059), for 2" pipe; galvanized finish. Packed 100 pair per case.

Pigtail for 1 Heater (#22085) 24" cord with Female Tandem Plug. Packed 150 pair per case. Approximate shipping weight: 33 lbs. per case.

#### ACCESSORIES (Included):

(1) **FREE WIRING PLANS and BILLS OF MATERIAL:** **EPRAD INCORPORATED** will provide you with a recommended layout tailored to your theatre. A wiring plan will be prepared showing wire runs and wire sizes, along with general electrical information. Call or write your **EPRAD THEATRE EQUIPMENT DEALER** for details.

(2) **A FREE PROMOTION PAK** is furnished to all purchasers of **EPRAD ELECTRIC IN-A-CAR HEATERS**. Promotion Pak contains:

- \* Promotion Ideas
- \* Winter Drive-In Operation and Maintenance Hints
- \* Preventive Maintenance Program for Heaters

Trailers are available to instruct your audience in use and care of heaters. Order through your dealer.

# EPRAD

HEATER JUNCTION BOX(ES)  
28843 (Terminal Block)  
28846 (Duplex)



## EPRAD HEATER JUNCTION BOX (ES)

(U.S. Patent 3,467,762)

### DESCRIPTION:

EPRAD HEATER JUNCTION BOX(ES), especially designed for theatre use, are heavy duty, ingeniously engineered unit, capable of accommodating heaters with plugs, without plugs, and also with the use of pigtails. There are two basic models:

(1) **THE TERMINAL STRIP MODEL:** encompasses a practical approach to the old problem of terminating wires, and is recommended for use with non-plug type heaters permanently installed for the season. Unit may also be used with pigtails. Six tabs are available for terminating heaters or pigtails. Models are available with or without fuses, with or without attached hanger brackets.

(2) **DUPLEX PLUG MODEL:** is designed to accommodate two male plugs, and the unit's exclusive pivot action secures plugs firmly when cover is installed, and also prevents disengaging of plugs from the socket. Models are available with or without fuses, with or without hanger brackets.

# E P R A D

**APPLICATION:**

EPRAD'S versatile Heater Junction Box(es) are neatly designed and heavy-duty built and are an asset to any well run drive-in theatre operation. The units (patent pending) have a number of accessories (listed below) and are installed simply and quickly on any standard 2" speaker post.

**ADVANTAGES:**

The advantages of using the EPRAD HEATER JUNCTION BOX(ES) are apparent because of the many unit variations available with both the Terminal Block and Duplex models — actually, EPRAD has anticipated the drive-in theatre owners' requirements in regard to many field requirements. Plug-in models, for instance, lock in, and yet heaters easily and quickly disconnect for replacement or service.

Heater power cord pigtail can be installed in "seconds." Underground power wires are terminated quickly under pressure plate instead of the obsolete, time consuming method of curling wire under screw head. Terminal strip or Duplex models available with or without fuses, or with or without hanger brackets.

**ORDERING INFORMATION:**

- Order: 28800 For Junction Box only.
- 28841 With Terminal Block only.
- 28801 With Terminal Block with attached hanger brackets.
- 28844 With Terminal Block with two fuses.
- 28843 With Terminal Block with two fuses and hanger brackets.
- Order: 28802 With Duplex Receptacle only.
- 28848 With Duplex with attached hanger brackets.
- 28847 With Duplex with two fuses.
- 28846 With Duplex with two fuses and hanger brackets.

**TECHNICAL DATA:**

**Hole & Knockouts:** are located on bottom of Heater Junction Box. One 1-1/8" hole is provided for 3/4 conduit for incoming underground wires. Two knockouts also provided for 1/2" conduit used for bringing in pigtails and non-plug heater cords.

**Mounting:** the "U" bolt and pipe bracket are designed to fit a standard 2" speaker post.

**Security:** the gulfite screws that hold the cover of the unit are hidden from view.

**Finish:** The heater Junction Box(es) are constructed of heavy gauge steel and both the interior and exterior of the unit are hot-galvanized plated.

**DIMENSIONS:** 6-5/8" x 4-1/4" x 7-3/4" with bracket; 5-1/2" without

**ACCESSORIES:**

**HEATER HANGER BRACKETS**—Brackets available as an integral part of the Heater Junction Boxes) and are included in the Terminal Block models, No. 28801 and 28843; in the Duplex models No. 28848 and 28846. Otherwise, may be purchased separately for small charge.

**PIGTAILS:** P/N 20085, for use by theatres which pass out heaters, are 24" long cord with female tandem plug, and are normally used with Terminal Strip models and are nominally priced. Factory installed auto clips are also available for a small charge.

**FUSES:** Are supplied to fit standard fuseholder, but amperage should be specified: (Suggested)

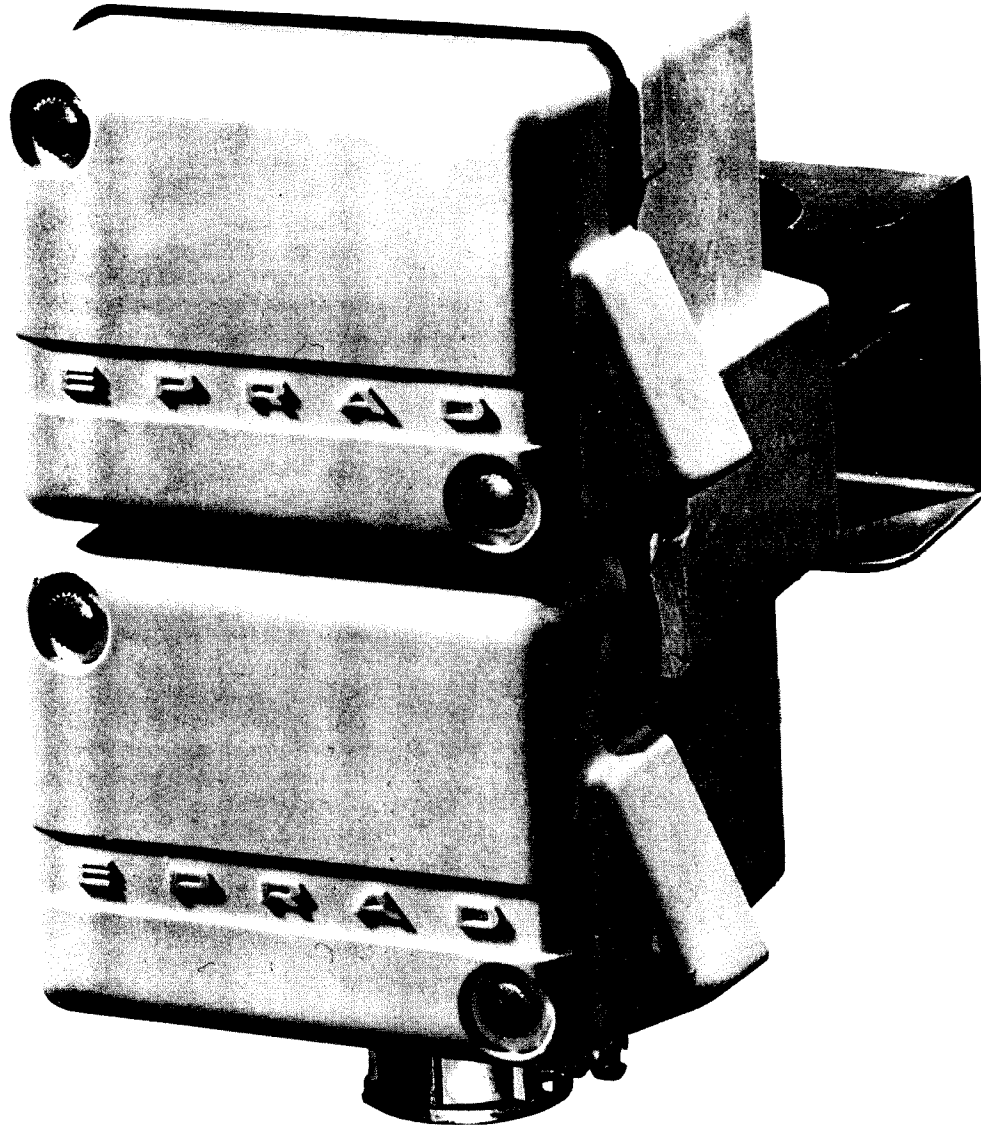
Volt./Watt	1000W	750W	600W
208-240	10A	8A	6A

Separate Heater Hanger Brackets (not attached to box) P/N 20059, Post mounted.

**E P R A D**

PRODUCTS OF EXCELLENCE

**FIBERGLASS HEATER JUNCTION BOX  
(36000)**



**FIBERGLASS HEATER JUNCTION BOX**  
(Patent No. ~~3,379,860~~. Other patents pending.)

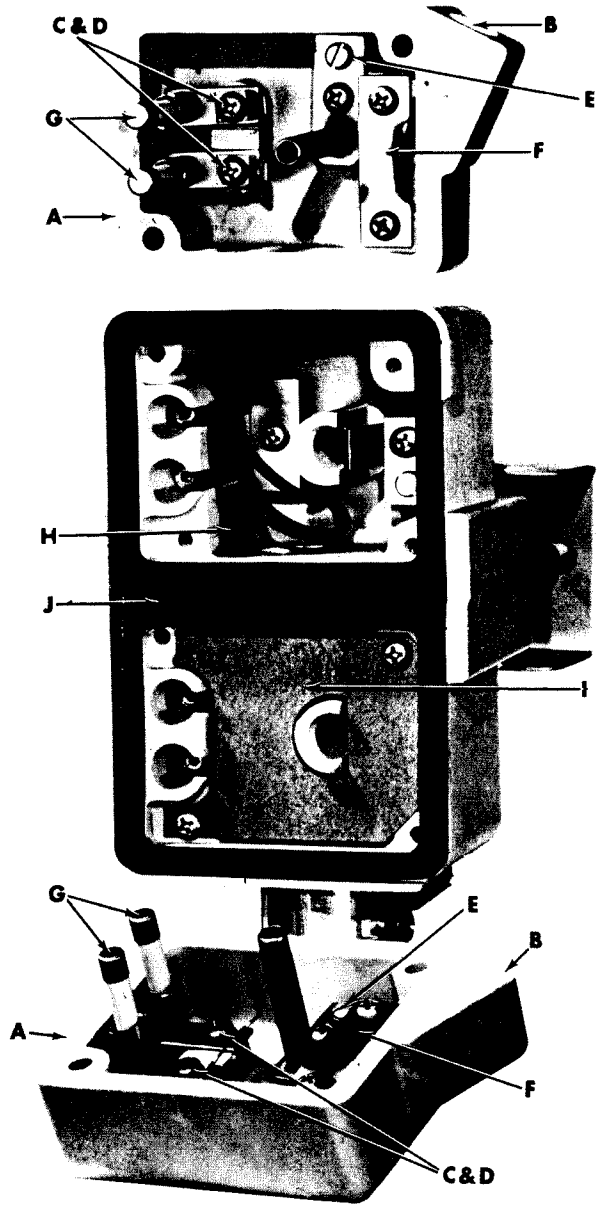
**DESCRIPTION:** 1,051,411

Shockproof, wearproof, tamperproof, all three are important features of Eprad's molded fiberglass heater junction boxes. Each unit is designed for mounting on a two-inch speaker post and will accommodate two heaters. Rough handling is no problem because box housings are made of tough molded fiberglass . . . which won't rust and never needs painting. Theftproof screws are used in the housing caps to discourage tampering and vandalism. Extra care also was taken in designing the wiring compartments so that it's safe and easy to make heater connections and service the boxes.

**E P R A D**

**INCORPORATED**

Box 372 • 124 West Woodmill  
Orem, Utah 84057 • (409) 233-3106



**WIRING FEATURES & ADVANTAGES**  
(see diagram):

To connect heaters, both housing caps (A) are removed. Heater cords insert through cap openings (B). Terminal wires attach to terminals (C & D) with auto-clips, and ground wires to terminals (E) with eyelets. To prevent excessive straining of terminal connections, heater cords are held firmly by clamps (F).

**NOTE:** When caps (A) are removed, heater cords, connections (C,D,E,F) and AVC-type fuses (G) come off and are "cold." Thus, connecting heaters/box servicing is super-safe because no live wires are exposed. All live wires are contained in wiring compartments (H) and covered by fiber plates (I). The housing is sealed with a weather-resistant Neoprene gasket (J).

Plug-in heaters may be used by wiring Pigtails into the junction box and allowing the female plugs to hang free. For warm-weather storage of permanently attached heaters, blank housing caps are available from EPRAD.

**ORDERING INFORMATION:**

Order: Eprad Fiberglass Heater Junction Box 36000. (3/4" EMT conduit connector is supplied)

**ACCESSORIES:**

Blank Junction Box Cap PN 36026 (optional). One Pair Heater Post Hangers PN 20059 (optional). Fuses PN 61113 (optional). Pigtail with female plug PN 20085 (optional). Specify if quick disconnects and eyelet to be supplied. Gulmite Screwdriver No. 10, PN 10525 (optional).

**TECHNICAL DATA:**

**JUNCTION BOX MEASUREMENTS:**

3-3/4" w. x 5-1/2" h. x 4" d.

COLOR: Shell-gray

MOUNTING: 2" Post

**E P R A D**

**INCORPORATED**

Box 7121 - 121 West Woodmill  
Columbus, Ohio 43820 - (614) 242-3100





EPRAD INCORPORATED / 123 W. Woodruff / P.O. Box 4712 / Toledo, Ohio 43620 / (419) 243-8106 / Cable Address: EPRAD

### GOLDEN SUPER HOTSHOT HEATERS - PRICE LIST

Note: Heaters with a 1000 Watt/240 Volt Rating also serve the following Ratings:

800 Watt/220 Volt - European Only  
750 Watt/208 Volt

Heaters with a 750 Watt/240 Volt Rating also serve the following Ratings:

600 Watt/220 Volt - European Only  
550 Watt/208 Volt

#### LIST

	<u>1000 Watts - 240 Volts with Thermostat</u>	
22332	Straight Cord W/Plug - UL-USCA Listed	\$45.84
22333	Straight Cord No Plug - CSA Listed	\$45.52
22334	Coiled Cord W/Plug, UL-CSA Listed	\$46.96
22335	Coiled Cord No Plug - CSA Listed	\$46.15
	<u>750 Watts - 240 Volts with Thermostat</u>	
22312	Straight Cord W/Plug - UL-CSA Listed	\$44.96
22313	Straight Cord No Plug - CSA Listed	\$44.56
22314	Coiled Cord W/Plug - CSA-UL Listed	\$46.15
22315	Coiled Cord No Plug - CSA Listed	\$45.36
	<u>1000 Watts - 120 Volts with Thermostat</u>	
22408	Straight Cord W/Plug - UL-CSA Listed	\$45.60
22409	Straight Cord No Plug - CSA Listed	\$44.80
22410	Coiled Cord W/Plug - UL-CSA Listed	\$46.24
22411	Coiled Cord No Plug - CSA Listed	\$45.44

Note - Prices subject to change without notice

SUPER HOTSHOT HEATERS UNPAINTED - PRICE LIST

Note: Heaters with a 1000 Watt/240 Volt Rating also serve the following Ratings:

800 Watt/220 Volt - European Only  
750 Watt/208 Volt

Heaters with a 750 Watt/240 Volt Rating also serve the following Ratings:

600 Watt/220 Volt - European Only  
550 Watt/208 Volt

	<u>LIST</u>
	<u>1000 Watt - 240 Volts with Thermostat</u>
22386	Straight Cord W/Plug \$41.44
22387	Straight Cord No Plug \$41.20
22388	Coiled Cord W/Plug \$42.96
22389	Coiled Cord No Plug \$42.16
	<u>750 Watt - 240 Volts with Thermostat</u>
22361	Straight Cord W/Plug \$40.63
22362	Straight Cord No Plug \$40.48
22363	Coiled Cord W/Plug \$42.24
22364	Coiled Cord No Plug \$41.28
	<u>1000 Watt - 120 Volt with Thermostat</u>
22400	Straight Cord with Plug \$41.35
22401	Straight Cord No Plug \$40.39
22402	Coiled Cord With Plug \$42.96
22403	Coiled Cord No Plug \$41.20

HEATER JUNCTION BOXES - PRICE LIST

		<u>LIST</u>
	(Fiberglass)	
36000	Junction Box W/3/4" EMT Connector	\$32.23
61113	5-AMP Fuse	\$ .44
10525	Gulmite Screwdriver No. 10	\$ 4.15
36002	Junction Box Cover Assembly	\$ 9.24
36004	Blank Junction Box Cover	\$ 2.83
	(Galvanized Steel)	
28800	Junction Box Only	\$15.84
28841	With Terminal Block Only	\$19.20
28801	With Terminal Block Att. Hanger Brackets	\$22.72
28844	With Terminal Block, 2 Fuses	\$24.56
28843	W/Terminal Block, 2 Fuses, Att. Hanger Brackets	\$28.39
28802	W/Duplex, Receptacle Only	\$20.48
28848	W/Duplex, Att. Hanger Brackets	\$29.20
28847	W/Duplex, 2 Fuses	\$23.91
28846	W/Duplex, 2 Fuses, Att. Hanger Brackets	\$29.85
20059	Post Hanger Brackets	\$ 6.37
20085	Plug Outlet	\$ 2.15

GOLDEN AND SUPER HOTSHOT HEATER REPLACEMENT PARTS

22353	Motor for 208-240 Volt Operation	\$ 9.94
60193	Front Bearing	\$ 1.31
60510	Rear Bearing	\$ 1.31
10502	Screw for Motor Mounting	\$ .18
22419	Shroud Assy W/100 Watt - 240 Volt Element	\$15.37
22420	Shroud Assy W/750 Watt - 240 Volt Element	\$13.80
22421	Shroud Assy W/1000 Watt - 120 Volt Element	\$13.80
Note:	#22419 is also used for 800W/220V and 750W/208V	
	#22420 is also used for 600W/220V and 550W/208V	
22424	Element Clip Modification Kit	\$ 1.50
61472	Screw for Mounting Shroud and Front Casting	\$ .18

GOLDEN AND SUPER HOTSHOT HEATER REPLACEMENT PARTS (Continued)

22456	Front Heater Casting, Painted	\$ 8.02
22442	Front Heater Casting, Aluminum	\$ 7.38
22457	Back Heater Casting, Painted	\$ 8.84
22443	Back Heater Casting, Aluminum	\$ 8.22
20579	Cage, Aluminum, Painted	\$ 4.23
22352	Cage, Aluminum, Unpainted	\$ 2.86
22462	Handle, Alum. Painted (Current Model)	\$ 1.69
22461	Handle, Alum., Unpainted (Current)	\$ 1.40
20601	Fan with Set Screw	\$ 1.66
10014	Set Screw for Fan	\$ .18
21240	Switch, Double Pole	\$ 7.69
20591	Thermostat and Clip W/2 Auto Clips	\$ 3.57
20780	Straight Cord W/Tandem Plug	\$ 4.88
20779	Straight Cord No Plug	\$ 3.42
20777	Coiled Cord W/Tandem Plug	\$ 5.60
20776	Coiled Cord No Plug	\$ 5.14
20085	Plug Outlet	\$ 2.15
20611	105 Wire, Brown W/2 Auto Clips	\$ .44
10035	Heyco Connectors	\$ .17
10428	Heyco Pliers	\$42.85
60699	Bulb Type Oiler	\$ 6.71
60700	Measured Release Precision Oiler	\$20.86
60958	Packing and Washer Set for 60700 Oiler	\$ 1.51
10523	Hi-Lo Lubricant, Quart	\$ 4.00
10528	Hi-Lo Lubricant, Pint	\$ 2.63
28819	Heater "Anti-Theft" Label	\$ .20
20059	Post Hanger Brackets	\$15.63
10383	Square Nut for Post Hanger Brackets	\$ .14
10393	Screw for Post Hanger Brackets	\$ .14
10506	Auto Clips (Quick Disconnect)	\$ .11
10504	Eyelet Lugs	\$ .10
10505	Spade Lugs	\$ .10
10426	Wirenut Connectors	\$ .11